



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

DMS-DR-2162
NASA CR-134,430

RESULTS OF INVESTIGATIONS ON AN 0.015-SCALE 140A/B
CONFIGURATION OF THE ROCKWELL INTERNATIONAL SPACE
SHUTTLE ORBITER (MODEL 49-0) IN THE NASA/AMES
RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL
(OA36)

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

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(OA36)

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by

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WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 3.5-187
NASA Series Number: OA36
Model Number: 49-0
Test Dates: February 25-March 1 and March 25-March 26, 1974
Occupancy Hours: 80

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COEFFICIENT SCHEDULE:

- (A): CL, CD, CDF, CA, CAF, CAB, CN, CLMFWD, CLMAFT, L/D, XCP/L vs. ALPHA
CN vs. CLMFWD, CL vs. CD
- (B): DCL, DCD, DCA, DCAF, DCAB, DCN, DCMFWD, DCMAFT vs. ALPHA
- (C): CY, CYN, CBL vs. ALPHA
- (D): CY, CYN, CBL vs. BETA
- (E): DCY, DCYN, DCBL vs. BETA

NOMENCLATURE
General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
\bar{c} _{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D _f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (Continued)
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{p_{Bi}}$	CPB	base pressure coefficient at station i
$C_{p_{SCi}}$	CPSC	sting-cavity pressure coefficient at station i
X_{cp}/l_B	XCP/L	normal force center-of-pressure
P_T	PT	freestream total pressure, PSF
P	P	freestream static pressure, PSF
T_T	TT	freestream total temperature, °R
δ_e	ELEVON	elevon deflection angle, degrees
δ_a	AILRON	aileron deflection angle, degrees
δ_{BF}	BDFLAP	bodyflap deflection angle, degrees
δ_{SB}	SPDBRK	speedbrake deflection angle, degrees
δ_R	RUDDER	rudder deflection angle, degrees
$C_{m_{aft}}$	CLMAFT	pitching moment coefficient based on aft c.g. location
$C_{m_{fwd}}$	CLMFWD	pitching moment coefficient based on forward c.g. location
ΔC_A	DCA	incremental axial force coefficient, difference between axial force coefficient of two runs
ΔC_{A_b}	DCAB	incremental base axial force coefficient, difference between base axial force coefficient of two runs
ΔC_{A_f}	DCAF	incremental forebody axial force coefficient, difference between forebody axial force coefficient of two runs

NOMENCLATURE (Concluded)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
ΔC_{ℓ}	DCBL	incremental rolling moment coefficient, difference between rolling moment coefficient of two runs
ΔC_D	DCD	incremental drag coefficient, difference between drag coefficient of two runs
ΔC_L	DCL	incremental lift coefficient, difference between lift coefficient of two runs
$\Delta C_{m_{aft}}$	DCMAFT	incremental aft pitching moment coefficient, difference between aft pitching moment coefficient of two runs
$\Delta C_{m_{fwd}}$	DCMFWD	incremental forward pitching moment coefficient, difference between forward pitching moment coefficient of two runs
ΔC_N	DCN	incremental normal force coefficient, difference between normal force coefficient of two runs
ΔC_y	DCY	incremental side force coefficient, difference between side force coefficient of two runs
ΔC_n	DCYN	incremental yawing moment coefficient, difference between yawing moment coefficient of two runs (body axis)
$\Delta \delta_e$	DELEVN	incremental elevon deflection, difference between elevon deflection for two runs, degrees
$\Delta \delta_{BF}$	DBDFLP	incremental bodyflap deflection, difference between bodyflap deflection for two runs, degrees
$\Delta \delta_{SB}$	DSPDBK	speedbrake deflection (used when plotting incremental coefficient data referenced to data for some baseline speedbrake deflection), degrees
δ_{eL}	ELEV-L	left-hand elevon deflection, inboard and outboard panels, degrees
δ_{eR}	ELEV-R	right-hand elevon deflection, inboard and outboard panels, degrees

CONFIGURATIONS INVESTIGATED

Throughout test OA36 the full 140A/B hybrid configuration Space Shuttle Vehicle Orbiter was used. No configuration buildup was possible in the short test period.

Model 49-0 dimensional data are given for the 140A/B configuration components in another section of this report.

The tested configuration included the following components:

B ₂₆	Basic 140A/B configuration fuselage
C ₉	Basic 140A/B configuration canopy
E ₂₆	Basic 140A/B configuration non-slotted elevons for W ₁₁₆
E ₃₇	Slotted elevons per model drawing SJ-A00148
F ₇	Basic 140A/B configuration bodyflap
M ₇	Basic 140A/B configuration OMS/RCS pods
M ₁₄	Shortened configuration OMS/RCS pods per VL70-008457
N ₂₈	Basic 140A/B configuration OMS engine nozzles
R ₅	Basic 140A/B configuration rudder for V ₈
V ₈	Basic 140A/B configuration vertical tail
W ₁₁₆	Basic 140A/B configuration wing

TEST FACILITY DESCRIPTION

The NASA-Ames 3.5-Foot Hypersonic Wind Tunnel is a closed-circuit, blowdown-type tunnel capable of operating at nominal Mach numbers of 5, 7, and 10 at pressures to 1800 psia and temperatures to 3400°R for run times to four minutes. The major components of the facility include a gas storage system where the test gas is stored at 3000 psi, a storage heater filled with aluminum-oxide pebbles capable of heating the test gas to 3400°R, axisymmetric contoured nozzles with exit diameters of 42 inches for generating the desired Mach number, and a 900,000 ft³ vacuum storage system which operates to pressures of 0.3 psia. The test section itself is an open-jet type enclosed within a chamber approximately 12-feet in diameter and 40-feet in length, arranged transversally to the flow direction.

A model support system is provided that can pitch models through an angle-of-attack range of -20 to +18 degrees, in a vertical plane, about a fixed point of rotation on the tunnel centerline. This rotation point is adjustable from 1 to 5 feet from the nozzle exit plane. The model normally is out of the test stream (strut centerline 37-inches from tunnel centerline) until the tunnel test conditions are established after which it is inserted. Insertion time is adjustable to as little as 1/2 second and models may be inserted at any strut angle.

A high-speed, analog-to-digital data acquisition system is used to record test data on magnetic tape. The present system is equipped to measure and record the outputs from 80 transducers in addition to 20 channels of tunnel parameters.

DATA REDUCTION

Force and moment data were reduced to coefficient form in both body and stability axis systems. Base and cavity pressure adjustments were applied as follows:

Base Pressure Coefficient

$$C_{P_{Bi}} = \frac{P_{Bi} - P_{\infty}}{q_{\infty}}$$

Sting-Cavity Pressure Coefficient

$$C_{P_{SCi}} = \frac{P_{SC} - P_{\infty}}{q_{\infty}}, \text{ where } P_{SC} \text{ is sting-cavity pressure}$$

Fuselage Base Axial-Force Coefficient

$$C_{A_b} = - \frac{[\sum C_{P_{Bi}} (A_{Bi}) + \sum C_{P_{SCi}} (A_{SCi})]}{S}$$

Forebody Axial-Force Coefficient

$$C_{A_f} = C_A - C_{A_b}$$

Normal-Force Center of Pressure

$$x_{cp}/l_B = \frac{x_{CG}}{l_B} - \frac{C_m(\bar{c})}{C_N(l_B)}$$

Where x_{CG} is the longitudinal distance from the model nose inner mold line, station $x = 238$, to the Moment Reference Center, C_m is the pitching

DATA REDUCTION (Concluded)

moment coefficient; C_N is the normal force coefficient; ℓ_B is the reference body length; and \bar{c} is the mean aerodynamic chord of the wing.

The following reference dimensions and constants were used:

<u>Symbol</u>		
A_b	fuselage base area (excluding cavity), ΣA_{Bi}	0.0615 ft ²
A_{SC}	sting-cavity area, ΣA_{SCi}	0.03409 ft ²
b	reference wing span	1.171 ft
\bar{c}	reference MAC	0.5935 ft
ℓ_B	reference body length	1.613 ft
S	reference wing area	0.60525 ft ²
x_{CG}	longitudinal length, nose (IML) to Moment Reference Center	12.5802 in
y_{CG}	lateral length, plane of symmetry to Moment Reference Center	0.000 in
z_{CG}	vertical length, FRP to Moment Reference Center	0.375 in
$x_{CG(AFT)}$	longitudinal length, model nose (IML) to aft CG Moment Reference Center	13.0643 in

TABLE I.

[illegible]

TABLE II.

TEST : OA 36		3.5 187		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE : March, 1974		
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS	
		α	β	δ_{EL}	δ_{ER}	δ_{BF}	δ_{SB}	δ_R	δ_c	δ_a						5.3
REPOOL	SLOTTED E37	20	B	0	0	-11.7	55	0	0	0					20	19
02		20	B				85								21	18
03		30	B				85								22	17
04		30	B				55								23	16
05		A	5				55								24	15
06			5	Y	Y		85		Y						25	
07			0	-40	-40		85		-40						26	1
08			0	-40	-40		55	Y	-40						27	2
09				0	0		55	-10	0						28	5
10				0	0		85	-10	0						29	7
11				0	0		85	0	0						30	6
12				0	0	Y	55	0	0						31	3
13				15	15	16.3	55	0	15						32	10
14				0	0	16.3	55	0	0	Y					34	
15				+10	-10	-11.7	55	0	0	10					36	13
16				0	0	0	55	0	0	0					37	9
17				0	0	-11.7	25	-10	0	0					38	
Y 18	Y	Y	Y	0	0	-11.7	25	0	0	0					41	

1756

676155493125191371

CLCDCA CN CLMFWD/L/D XCP/L CY CYN CBL CP'S

COEFFICIENTS

A(α): 14, 16, 20, 24, 28, 32, 36, 42, 44

B(β): -10, -8, -6, -4, -2, 0, 2, 4, 6

COVAR (1) COVAR (2) NOV

C(α): 2, 6, 10, 14, 18, 22, 26, 30, 32

D(β): -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5

α OR β SCHEDULES

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B₂₆

GENERAL DESCRIPTION : Configuration 140A/B Orbiter Fuselage

NOTE: B₂₆ is identical to B₂₄ except underside of fuselage has been
refaired to accept W₁₁₆.

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER : VL70-000143B, -000200, 000205, -006089, -000145,
-000140A, 000140B

DIMENSIONS :	FULL SCALE	MODEL SCALE
*Length (OML: Fwd Sta. X _O =235)-In.	<u>1293.3</u>	<u>19.400</u>
*Length (IML: Fwd Sta. X _O =238)-In.	<u>1290.3</u>	<u>19.350</u>
* Max Width (@ X = 1528.3) - In.	<u>264.0</u>	<u>3.960</u>
Max Depth (@ X _O = 1464) - In.	<u>250.0</u>	<u>3.750</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft ²	<u></u>	<u></u>
Max. Cross-Sectional	<u>340.88</u>	<u>0.077</u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : CANOPY - C₉

GENERAL DESCRIPTION : Configuration 3A, Canopy used with Fuselage

B₂₆

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER: VL70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
*Length ($X_o = 434.643$ to 578)	<u>143.357</u>	<u>2.150</u>
Max Width (@ $X_o = 513.127$)	<u>152.412</u>	<u>2.286</u>
Max Depth (@ $X_o = 485.0$)	<u>25.000</u>	<u>0.375</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELEVON - E₂₆

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Elevons

DATA ARE FOR ONE SIDE

MODEL SCALE: 0.015

MODEL DRAWING: SS-A00148, RELEASE 6

DRAWING NUMBER: VL70-000200, -006089, -006092

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area Ft^2	<u>210.0</u>	<u>0.0473</u>
Span (equivalent) - In.	<u>349.2</u>	<u>5.238</u>
Inb'd equivalent chord - In.	<u>118.004</u>	<u>1.770</u>
Outb'd equivalent chord - In.	<u>55.192</u>	<u>0.828</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
* Area Moment (Product of Area & \bar{c}) - Ft^3	<u>1587.25</u>	<u>0.0054</u>
* Mean Aerodynamic Chord - In.	<u>90.7</u>	<u>1.361</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ALTERNATE SLOTTED ELEVON - E₃₇

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Elevon.

E₃₇ is a slotted version of E₂₆. Data are for one side.

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER: VL70-000200, -006089, -006092 and
Fig. 4A of SAS/AERO/76-643

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>210.0</u>	<u>0.0473</u>
Span (equivalent) - In.	<u>349.2</u>	<u>5.238</u>
Inb'd equivalent chord In.	<u>118.004</u>	<u>1.770</u>
Outb'd equivalent chord	<u>55.192</u>	<u>0.828</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line) Ft ³	<u>1587.25</u>	<u>0.00536</u>

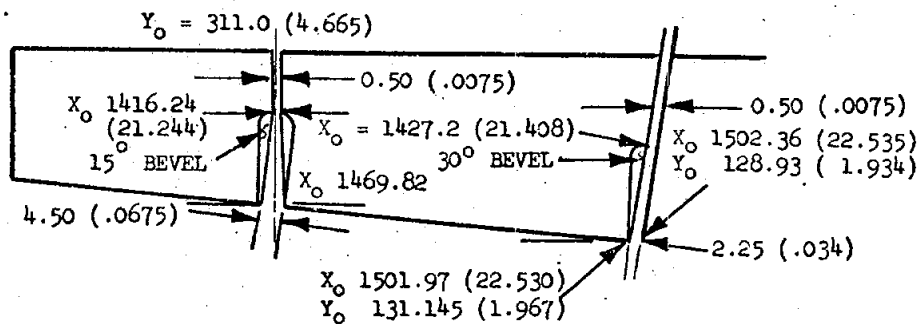


TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY FLAP - F₇

GENERAL DESCRIPTION : Configuration 140A/B Orbiter Body Flap

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER VL70-000140A, VL70-000145

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0=1520$ to $X_0=1613$) - In.	<u>93.000*</u>	<u>1.395</u>
Max Width - In.	<u>262.000</u>	<u>3.930</u>
Max Depth ($X_0 = 1520$) - In.	<u>23.000</u>	<u>0.345</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft ²	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u>142.6</u>	<u>0.0321</u>
Wetted	<u></u>	<u></u>
Base	<u>41.84722</u>	<u>0.628</u>

*Model dim. measured from Model Sta. 15.20

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : OMS/RCS PODS - M₇

GENERAL DESCRIPTION : Configuration 140A/B Orbiter OMS/RCS Pods

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER VL70-000145

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_0=1233.0$)-In.	<u>327.000</u>	<u>4.905</u>
Max Width (@ $X_0 = 1450.0$) - In.	<u>94.5</u>	<u>1.418</u>
Max Depth (@ $X_0 = 1493.0$) - In.	<u>109.000</u>	<u>1.635</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

MODEL DIMENSIONAL DATA

MODEL COMPONENT : OMS POD (M₁₄)

GENERAL DESCRIPTION : Preliminary IML version of short OMS pod.

(First used on 0.015 scale Model 36-0 for test No. OA83)..

SCALE: 0.015

DRAWING NUMBER : VL70-008457

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta. $X_0 = 1311$)	<u>254.0</u>	<u>3.814</u>
Max Width (@ $X_0 = 1511$) In.	<u>135.6</u>	<u>2.034</u>
Max Depth (@ $X_0 = 1511$) In.	<u>73.6</u>	<u>1.104</u>
Fineness Ratio	<u>2.54080</u>	<u>2.54080</u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>54.50734</u>	<u>0.01226</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS NOZZLES - N28GENERAL DESCRIPTION: Configuration 140A/B Orbiter OMS NozzlesMODEL SCALE: 0.015MODEL DRAWING: SS-A00106, RELEASE 5 (Contour)DRAWING NUMBER: VL70-000140A (Location)

DIMENSIONS:

FULL SCALE MODEL SCALE

MACH NO.

Length - In.

Gimbal Point to Exit Plane

Throat to Exit Plane

Diameter - In.

Exit

Throat

Inlet

Area - ft²

Exit

Throat

Gimbal Point (Station) - In.

Left Nozzle

X_oY_oZ_o

Right Nozzle

X

Y

Z

Null Position - Deg.

Left Nozzle

Pitch

Yaw

Right Nozzle

Pitch

Yaw

<u>1518.0</u>	<u>22.770</u>
<u>- 88.0</u>	<u>- 1.320</u>
<u>492.0</u>	<u>7.380</u>

<u>1518.0</u>	<u>22.770</u>
<u>+ 88.0</u>	<u>+ 1.320</u>
<u>492.0</u>	<u>7.380</u>

<u>15°49'</u>	<u>15°49'</u>
<u>12°17'</u>	<u>12°17'</u>

<u>15°49'</u>	<u>15°49'</u>
<u>12°17'</u>	<u>12°17'</u>

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R₅

GENERAL DESCRIPTION: 2A, 3, 3A and 140A/B Configurations

MODEL SCALE: 0.015

DRAWING NUMBER: VL70-000146A, VL70-000095, VL70-000139.

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
*Area- Ft ²	<u>100.15</u>	<u>0.0225</u>
Span (equivalent) - In	<u>201.0</u>	<u>3.015</u>
Inb'd equivalent chord - In.	<u>91.585</u>	<u>1.3738</u>
Outb'd equivalent chord - In.	<u>50.833</u>	<u>0.7625</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
* Area Moment (Product of area & \bar{c})-Ft ³	<u>610.92</u>	<u>0.002</u>
*Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>1.098</u>

*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V₈

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Vertical Tail

MODEL SCALE: 0.015

MODEL DRAWING: SS-A00148, RELEASE 6

DRAWING NUMBER: VL70-000146A

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft ²		
Planform	<u>413.253</u>	<u>0.093</u>
Span (Theo) - In.	<u>315.720</u>	<u>4.736</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
* Trailing Edge	<u>26.2</u>	<u>26.2</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.500</u>	<u>4.028</u>
Tip (Theo) WP	<u>108.470</u>	<u>1.627</u>
MAC	<u>199.808</u>	<u>2.997</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>21.953</u>
W.P. of .25 MAC	<u>635.522</u>	<u>9.533</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.00</u>	<u>0.030</u>
Void Area	<u>13.17</u>	<u>0.003</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>

TABLE III. - MODEL DIMENSIONAL DATA - Concluded. *REVISED 4/24/74

MODEL COMPONENT: WING-W₁₁₆

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W₁₁₄ except airfoil thickness. Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.015

TEST NO.

DWG. NO. VL70-000140A, -000200

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft^2

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

*Fus. Sta. of .25 MAC

* W.P. of .25 MAC

* B.L. of .25 MAC

EXPOSED DATA

* Area (Theo) Ft^2

* Span, (Theo) In. BP108

* Aspect Ratio

Taper Ratio

Chords

* Root BP108

Tip $1.00 \frac{b}{2}$

* MAC

* Fus. Sta. of .25 MAC

* W.P. of .25 MAC

* B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root $\frac{b}{2} =$

Tip $\frac{b}{2} =$

Data for (1) of (2) Sides

Leading Edge Cuff

*Planform Area Ft^2

* Leading Edge Intersects Fus M. L. @ Sta

* Leading Edge Intersects Wing @ Sta

2690.00

0.605

936.68

14.050

2.265

2.265

1.177

1.177

0.200

0.200

3.500

3.500

0.500

0.500

+ 3.000

+ 3.000

45.000

45.000

- 10.056

- 10.056

35.209

35.209

689.24

10.339

137.85

2.068

474.81

7.122

1136.83

17.052

290.58

4.359

182.13

2.732

1751.50

0.394

720.68

10.810

2.059

2.059

0.245

0.245

562.09

8.431

137.85

2.068

392.83

5.892

1185.98

17.790

294.30

4.415

251.77

3.777

0.113

0.113

0.12

0.12

113.18

0.025

500.0

7.50

1024.00

15.36

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

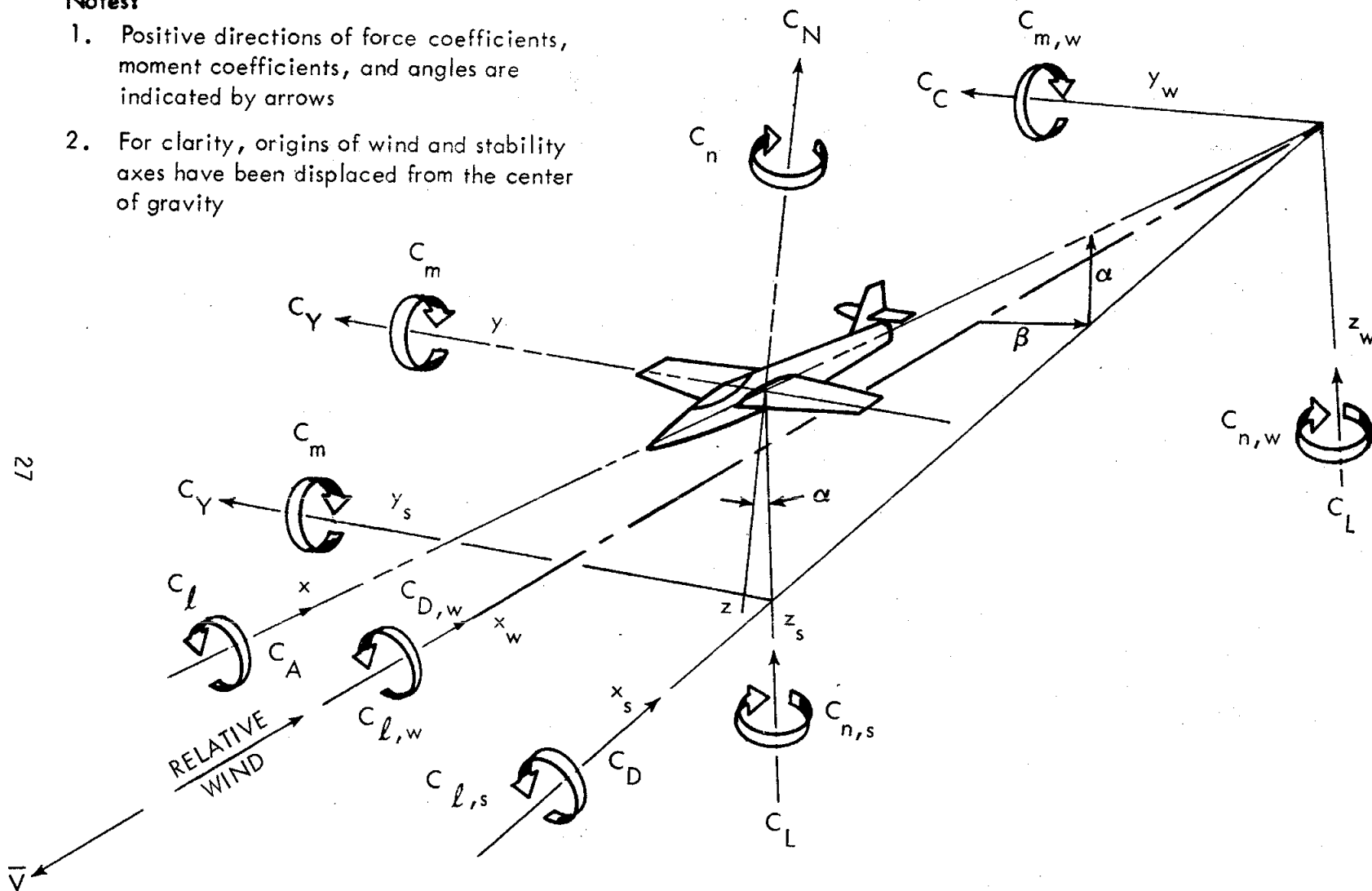
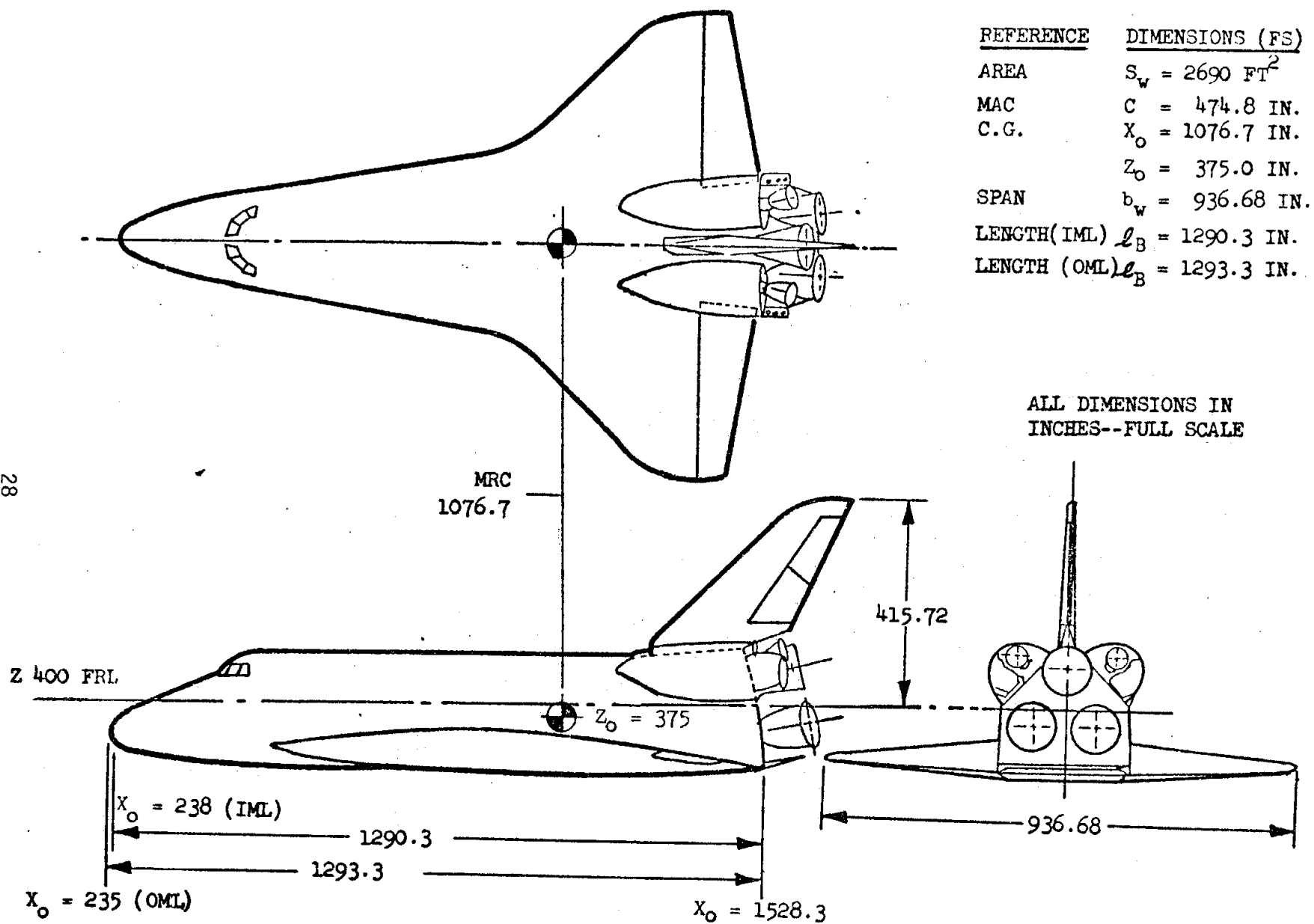
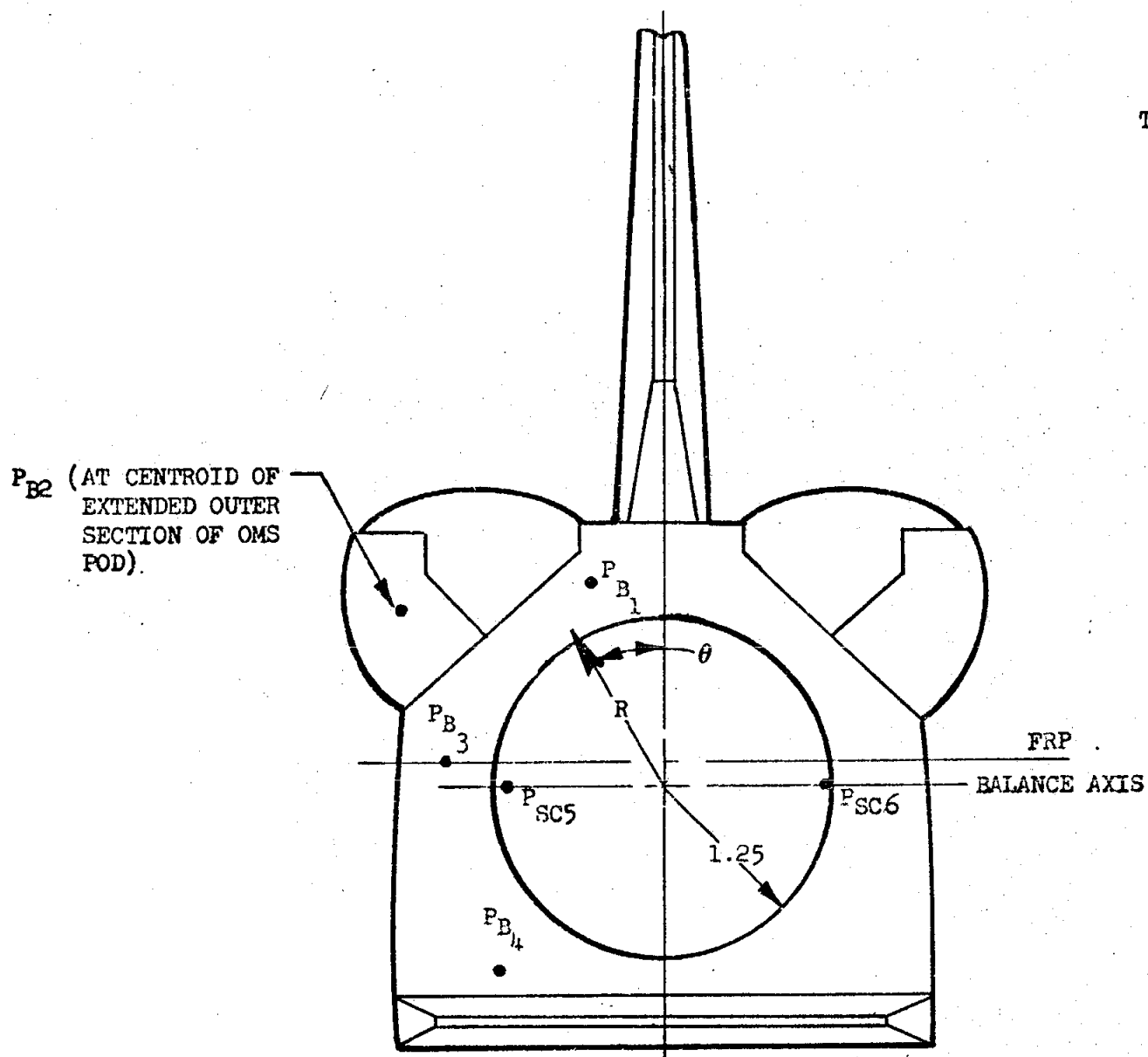


Figure 1. - Axis systems.



a. SSV Orbiter Configuration 140A/B

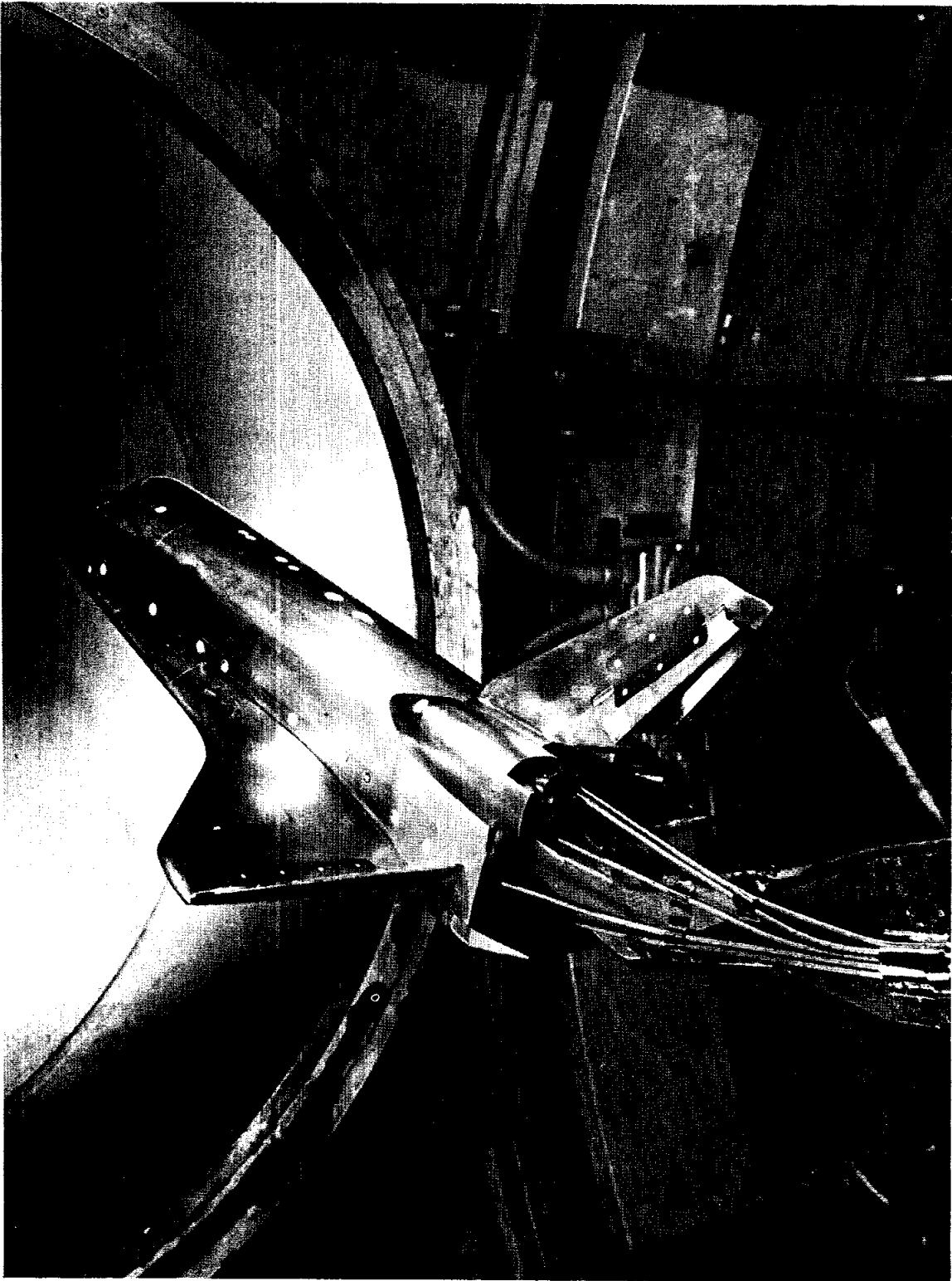
Figure 2. - Model sketches.



TAP	θ	R
P_{B1}	20°	1.60 IN.
P_{B2}	57°	2.10 IN.
P_{B3}	84°	1.50 IN.
P_{B4}	140°	1.76 IN.

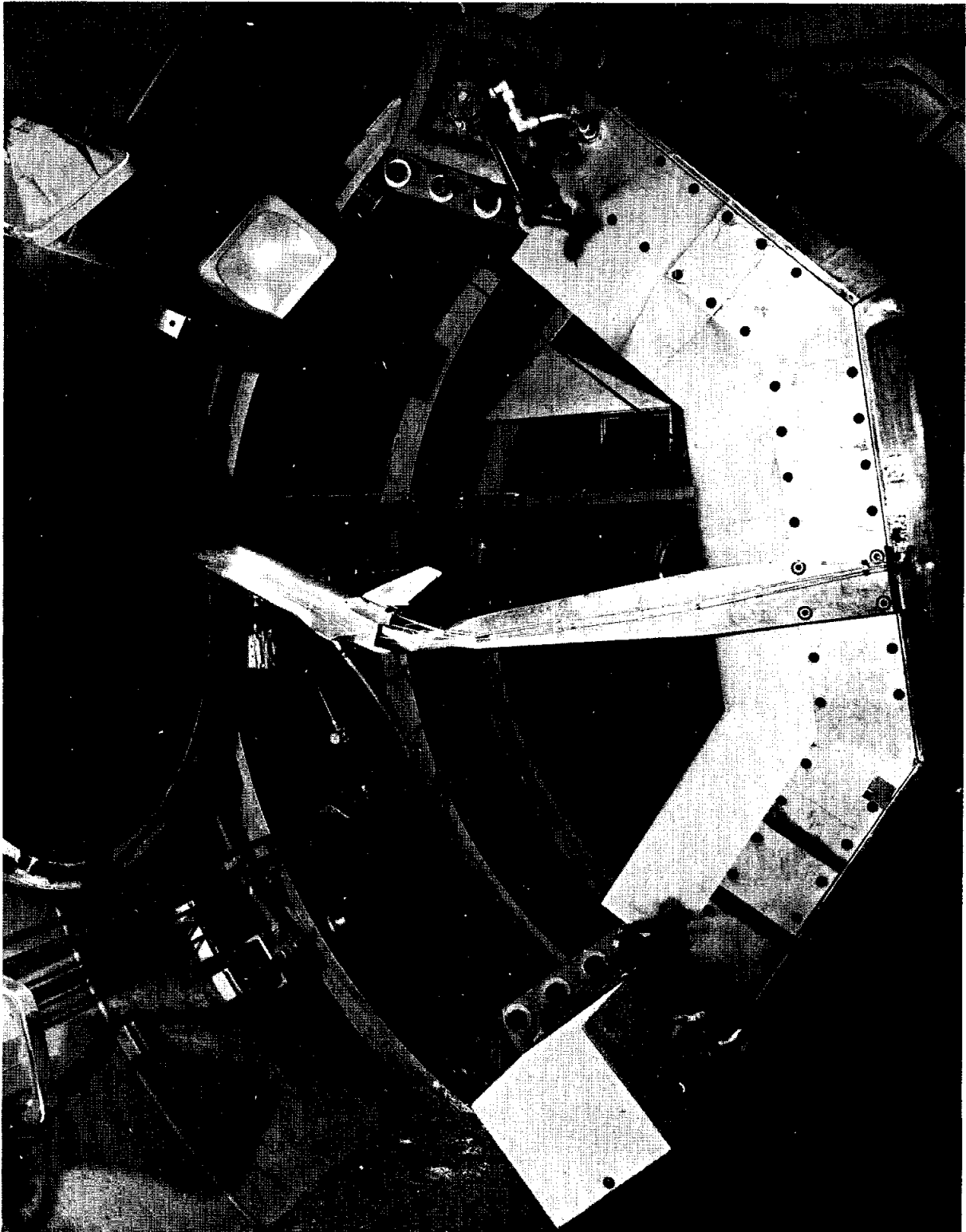
b. Base and Cavity Pressure Locations

Figure 2. - Concluded.



a. Rear 3/4 view

Figure 3. - Model installation photographs.



b. Side view

Figure 3. - Concluded.

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	826 C9 M7 F7 V116 V8 E26 R5
(DEP021)	826 C9 M7 F7 V116 V8 E26 R5
(DEP012)	826 C9 M7 F7 V116 V8 E37 R5
(DEP008)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

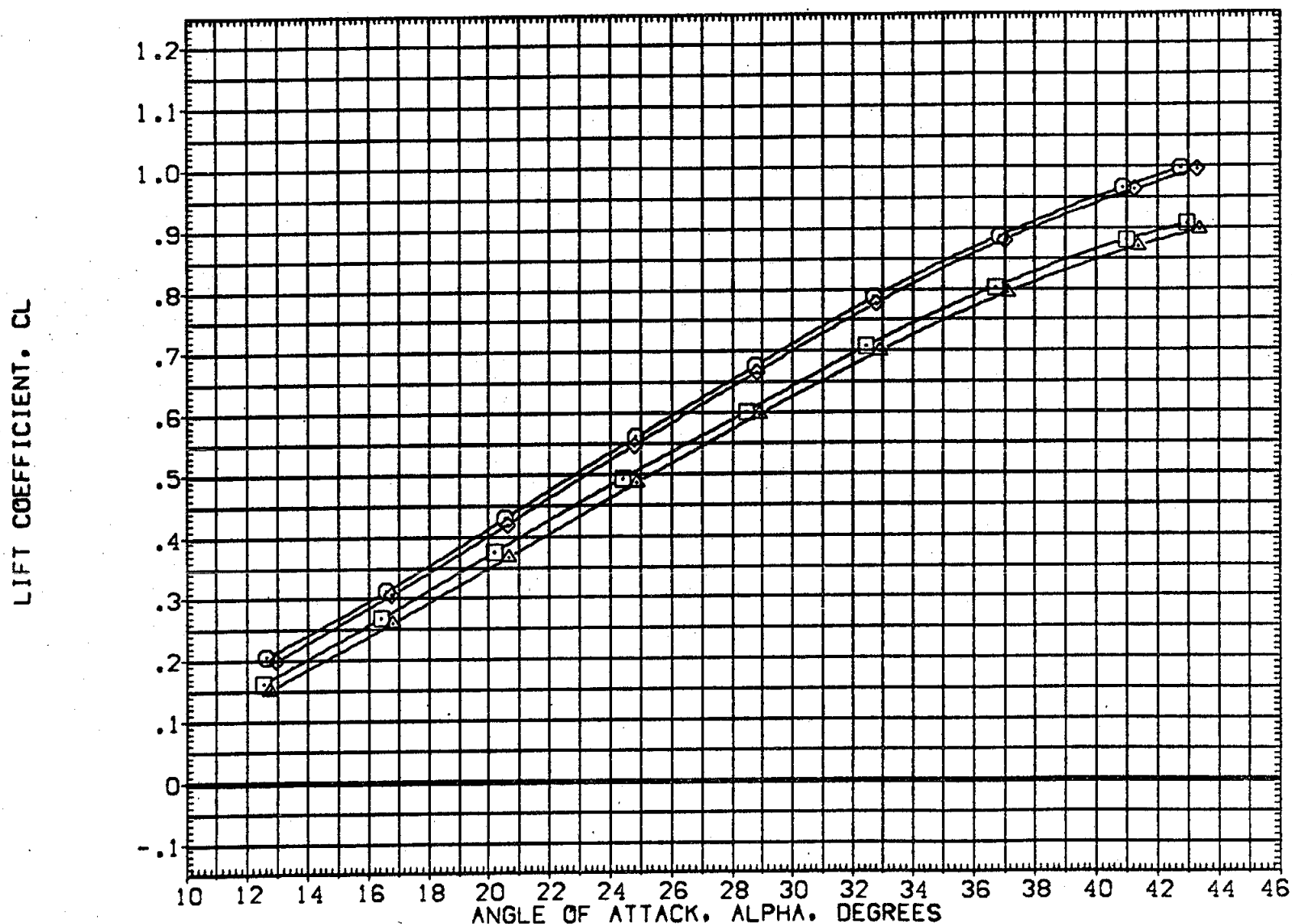


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	B26 C9 M7 F7 V116 V8 E26 R5
(DEP021)	B26 C9 M7 F7 V116 V8 E26 R5
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP008)	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	DOFLAP	SPOBRK	REFERENCE INFORMATION
.000	.000	-11.700	55.000	SREF 2630.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF 474.8000 IN.
.000	.000	-11.700	55.000	BREF 936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

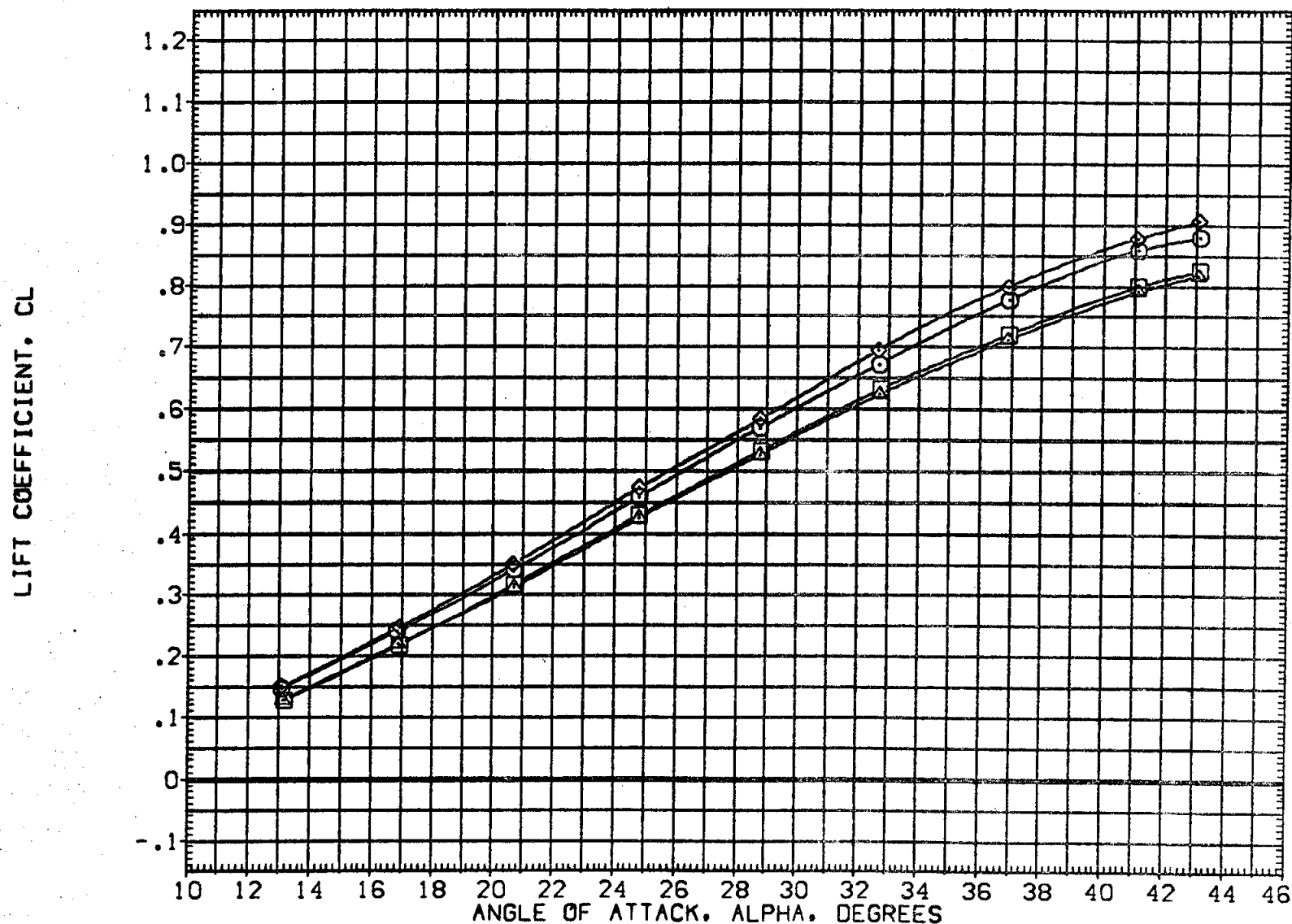


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	826 C9 M7 F7 V116 V8 E28 R5
(DEP021)	826 C9 M7 F7 V116 V8 E26 R5
(DEP012)	826 C9 M7 F7 V116 V8 E37 R5
(DEP008)	826 C9 M7 F7 V116 V8 E37 R3

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

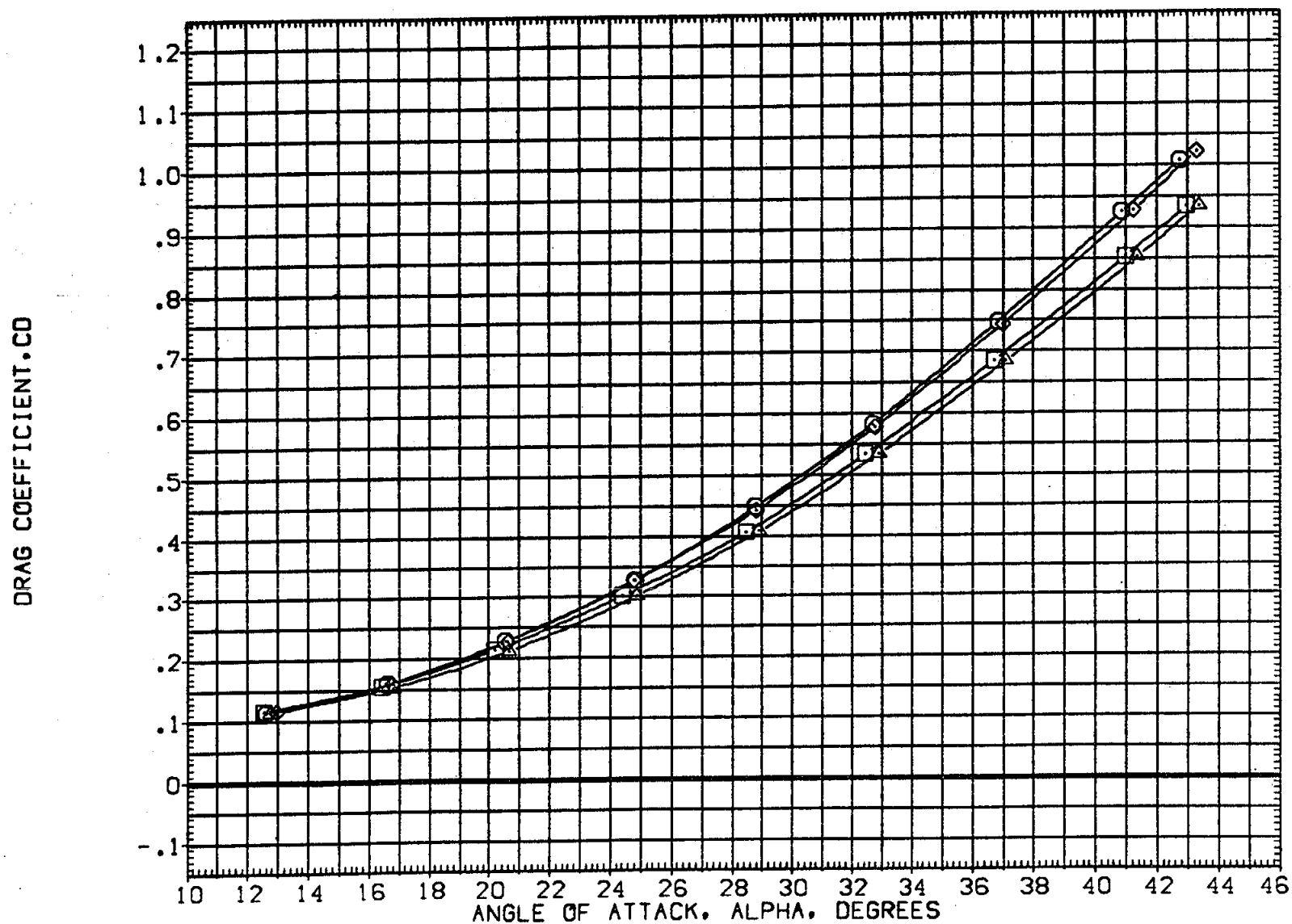


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023) ○	B26 C9 M7 F7 V116 V8 E26 R5
(DEP021) □	B26 C9 M7 F7 V116 V8 E26 R5
(DEP012) ◇	B26 C9 M7 F7 V116 V8 E37 R5
(DEP008) △	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	SDFLAP	SPDBRK	REFERENCE INFORMATION		
.000	.000	-11.700	55.000	SREF	2690.0000	50.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000	IN.
.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

DRAG COEFFICIENT, CD

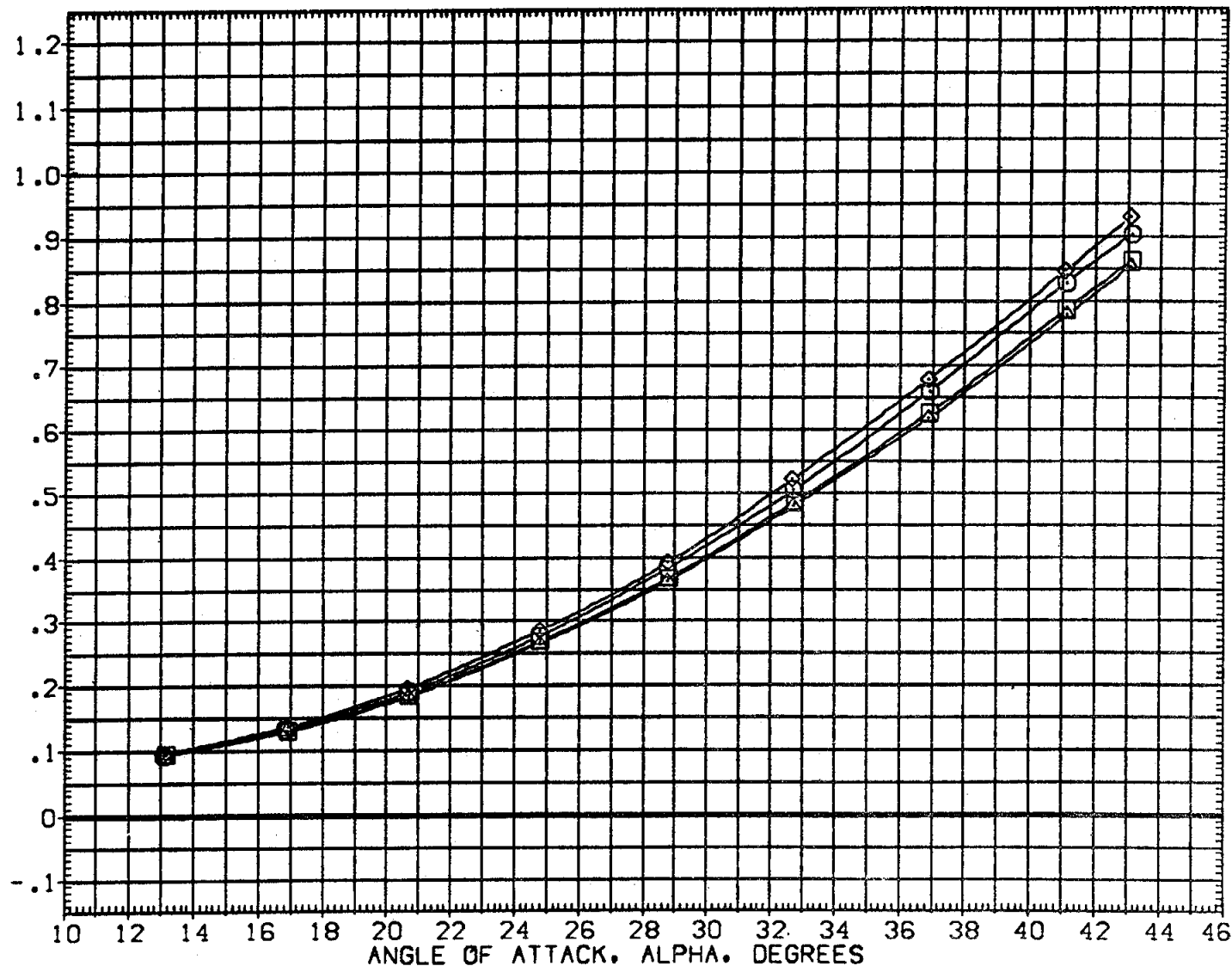


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	○	B26 C9 M7 F7 V116 V8 E26 R5
(DEP021)	□	B26 C9 M7 F7 V116 V8 E26 R5
(DEP012)	◇	B26 C9 M7 F7 V116 V8 E37 R5
(DEP008)	△	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

FOREBODY DRAG COEFFICIENT, CDF

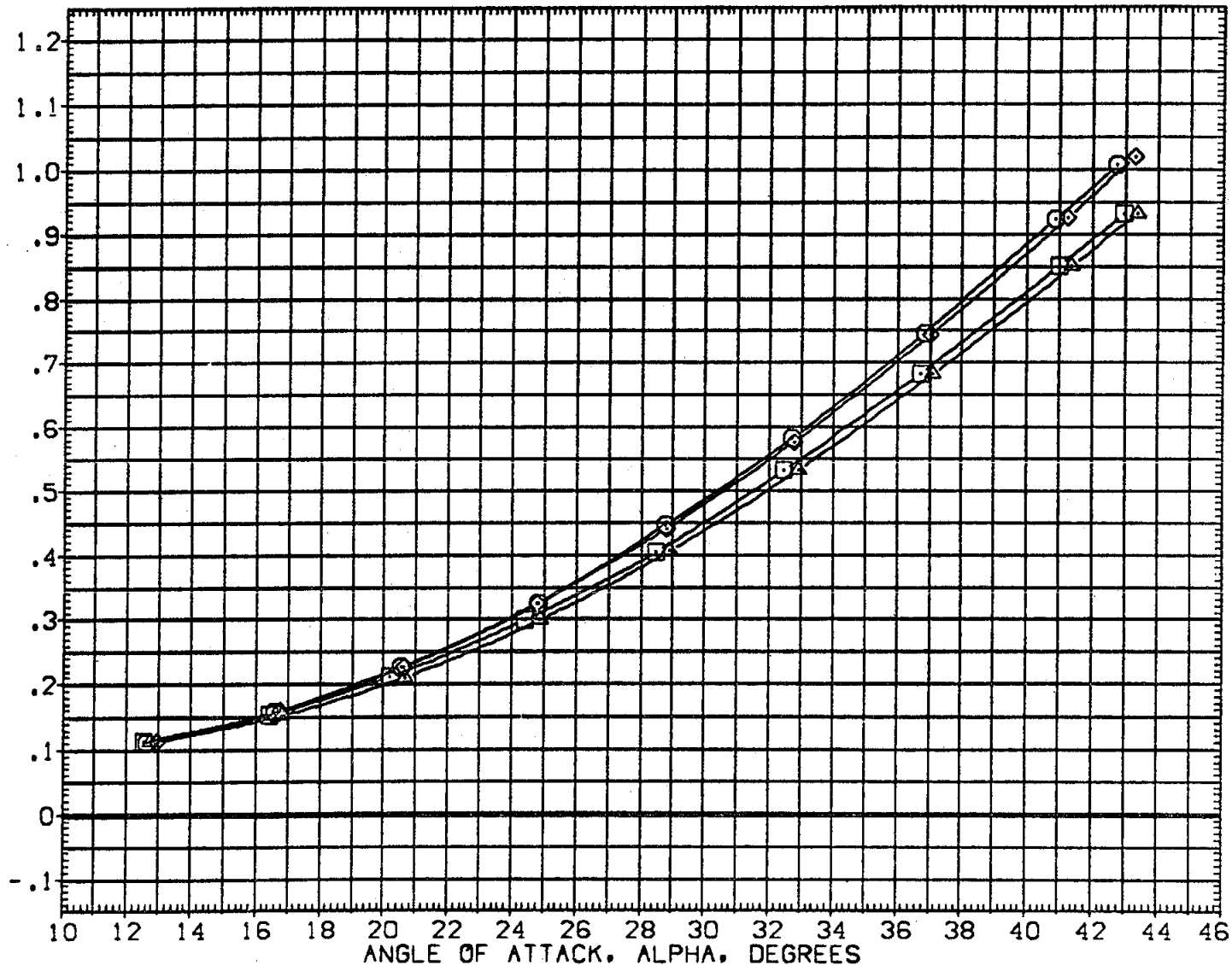


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	○	B26 C9 M7 F7 V116 V8 E26 R5
(DEP021)	□	B26 C9 M7 F7 V116 V8 E26 R5
(DEP012)	×	B26 C9 M7 F7 V116 V8 E37 R5
(DEP008)	△	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BDFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

FOREBODY DRAG COEFFICIENT, CDF

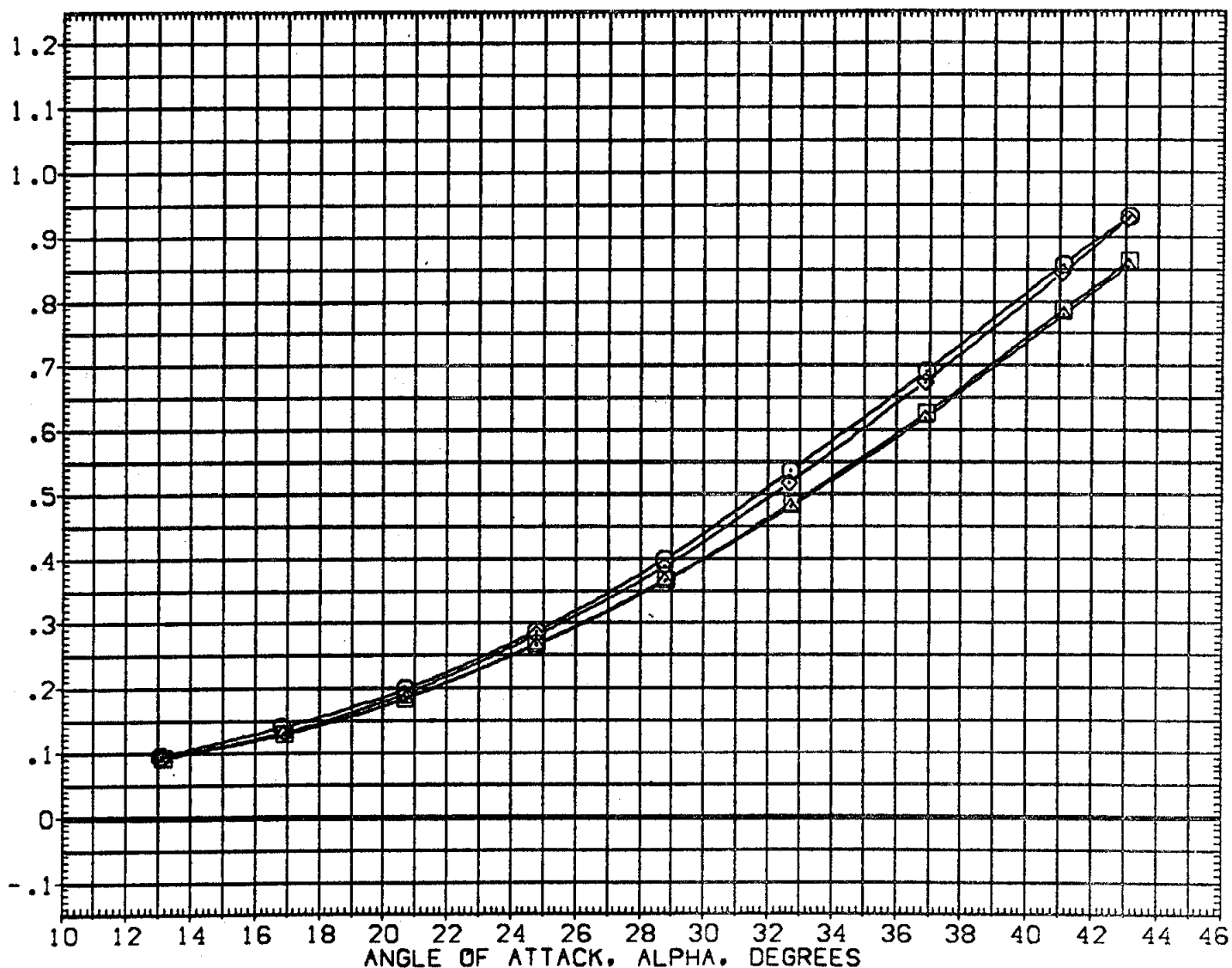


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

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6



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	□	826 C9 M7 F7 V116 V8 E26 R5
(DEP021)	○	826 C9 M7 F7 V116 V8 E26 R5
(DEP012)	◇	826 C9 M7 F7 V116 V8 E37 R5
(DEP008)	△	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

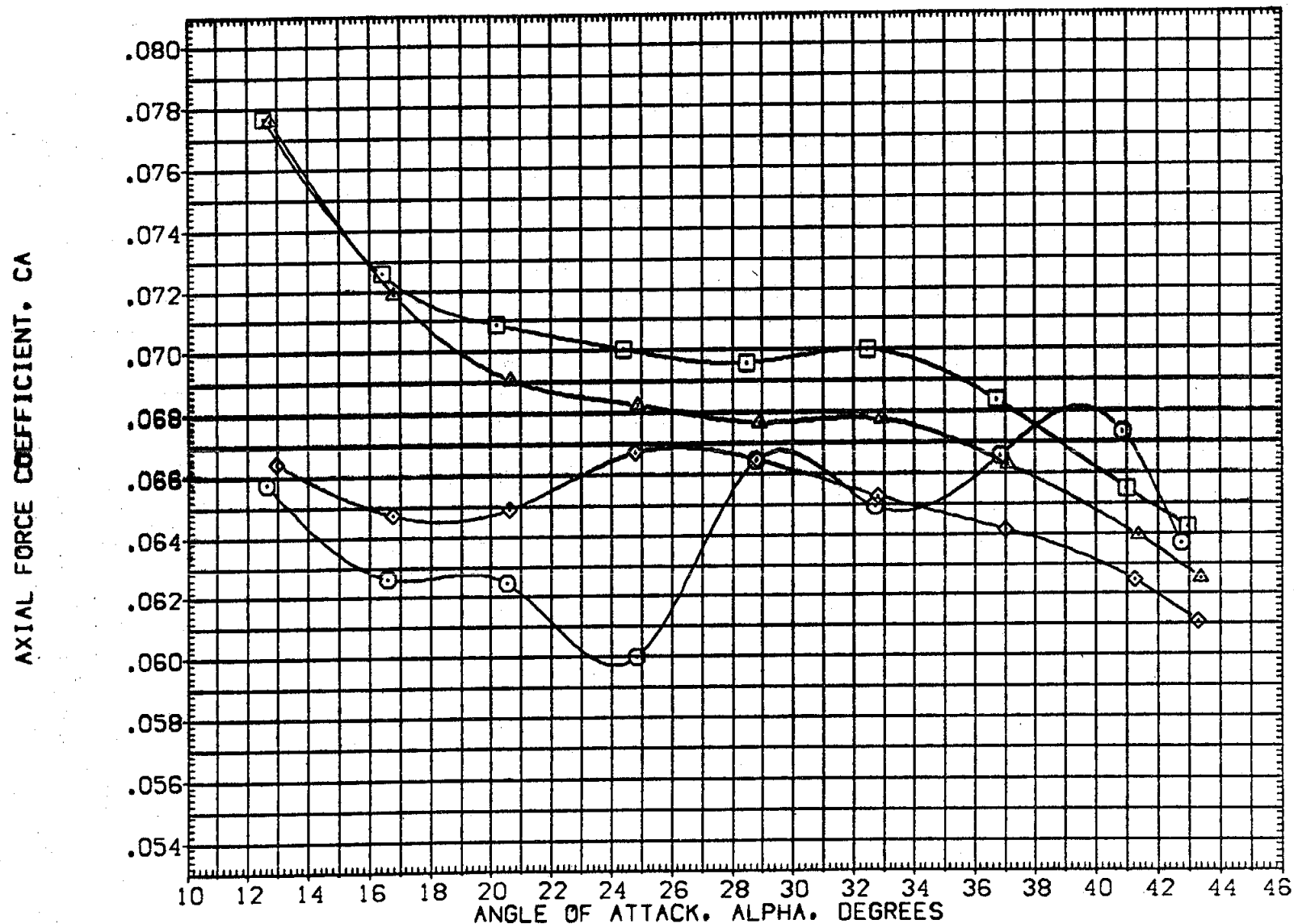


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	826 C9 M7 F7 V116 V8 E26 R5
(DEP021)	826 C9 M7 F7 V116 V8 E26 R5
(DEP012)	826 C9 M7 F7 V116 V8 E37 R5
(DEP008)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION		
.000	.000	-11.700	55.000	SREF	2690.0000	50. FT.
-40.000	.000	-11.700	55.000	LREF	474.8000	IN.
.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMPP	1076.0000	IN.
				YMPP	.0000	IN.
				ZMPP	375.0000	IN.
				SCALE	.0150	

AXIAL FORCE COEFFICIENT, CA

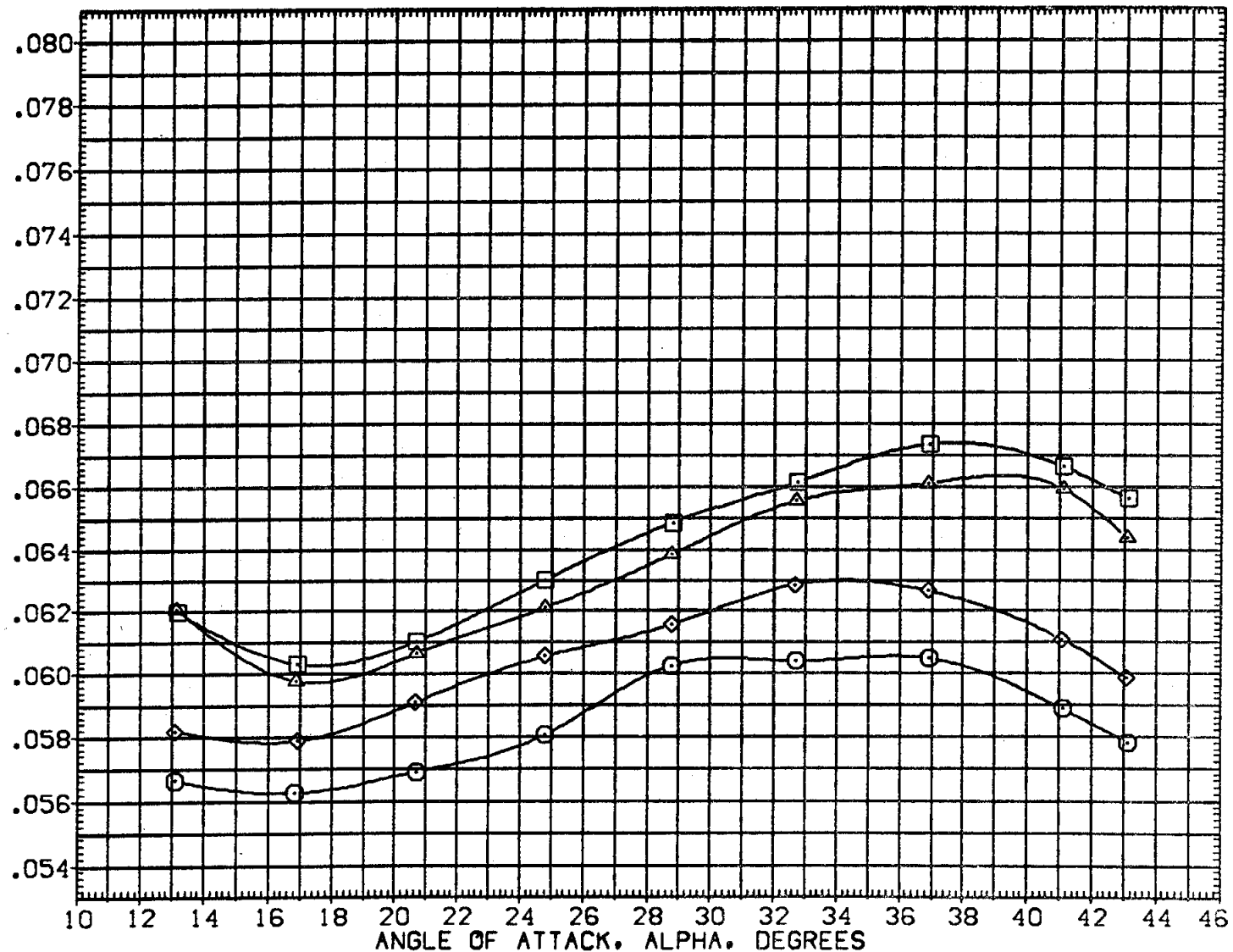


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	B26 C9 M7 F7 V116 V8 E26 R5
(DEP021)	B26 C9 M7 F7 V116 V8 E26 R5
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP008)	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION		
.000	.000	-11.700	55.000	SREF	2690.0000	50. FT.
-40.000	.000	-11.700	55.000	LREF	474.8000	IN.
.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

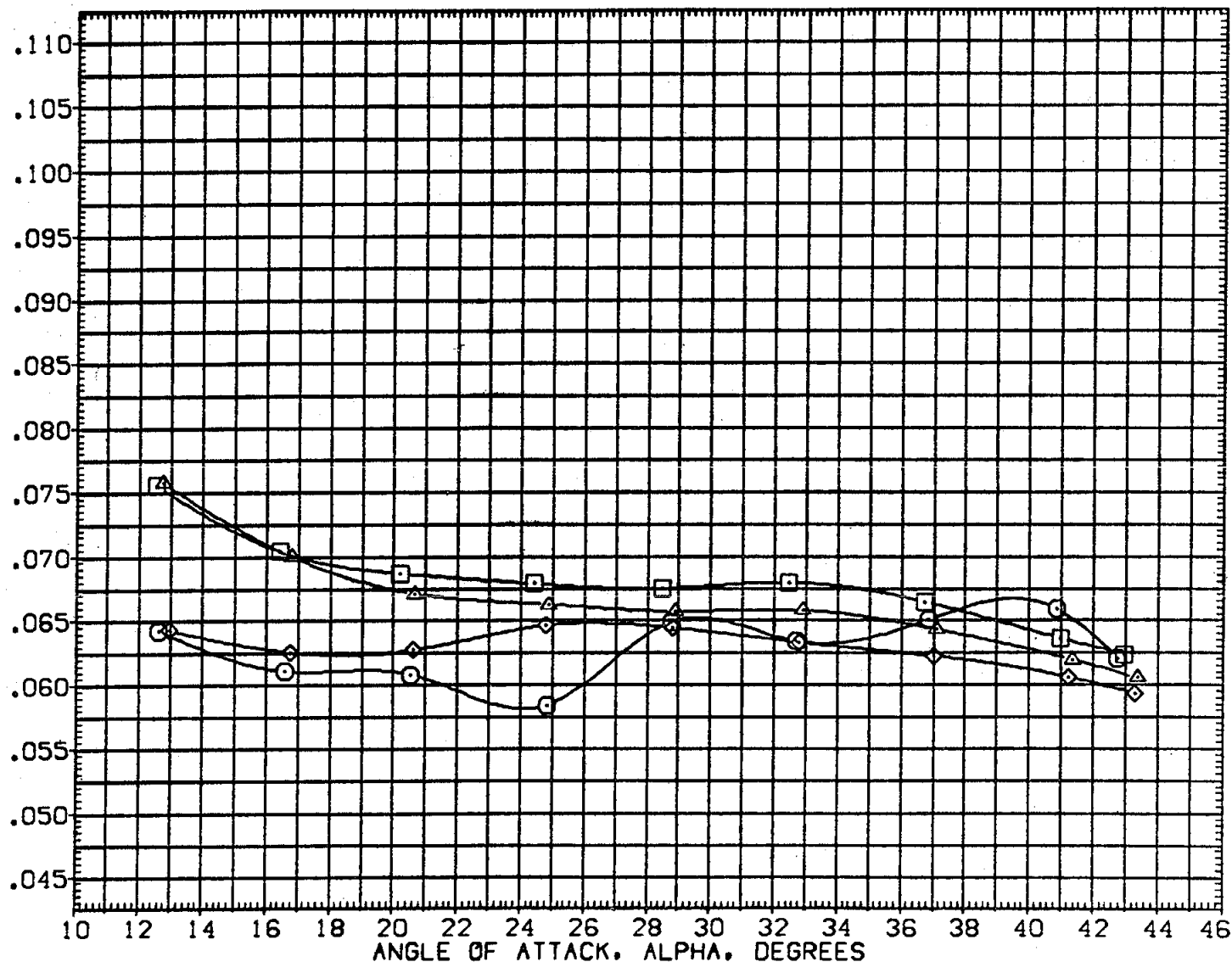


FIG. 4 ELEVON EFFECTIVENESS. BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	826 C9 M7 F7 V116 V8 E26 R5
(DEP021)	826 C9 M7 F7 V116 V8 E26 R5
(DEP012)	826 C9 M7 F7 V116 V8 E37 R5
(DEP008)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	DOFLAP	SPDBRK	REFERENCE INFORMATION		
.000	.000	-11.700	55.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000	IN.
.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

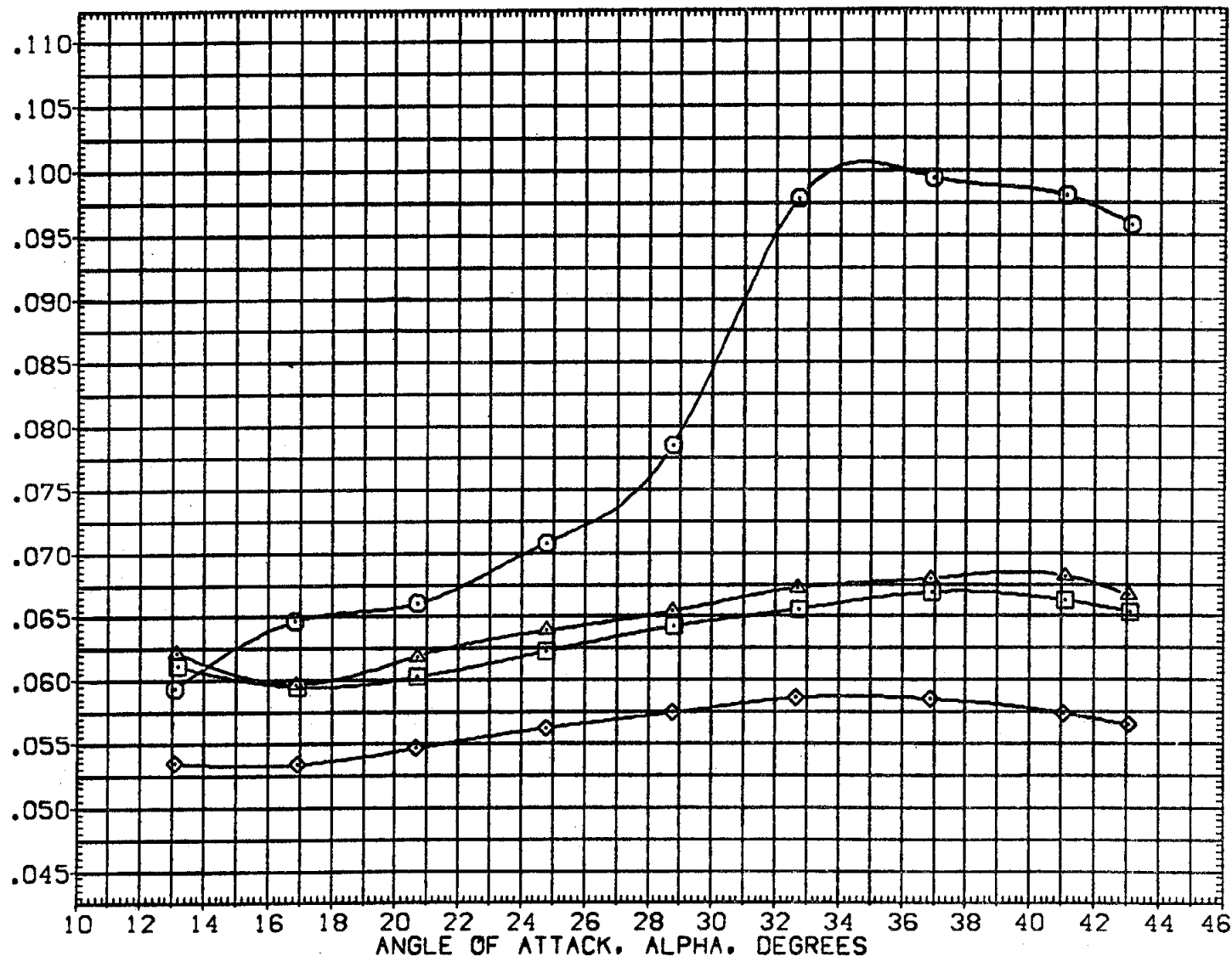


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
DEP023	○	B26 C9 M7 F7 V116 V8 E26 R5
DEP021	□	B26 C9 M7 F7 V116 V8 E26 R5
DEP012	◇	B26 C9 M7 F7 V116 V8 E37 R5
DEP008	△	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

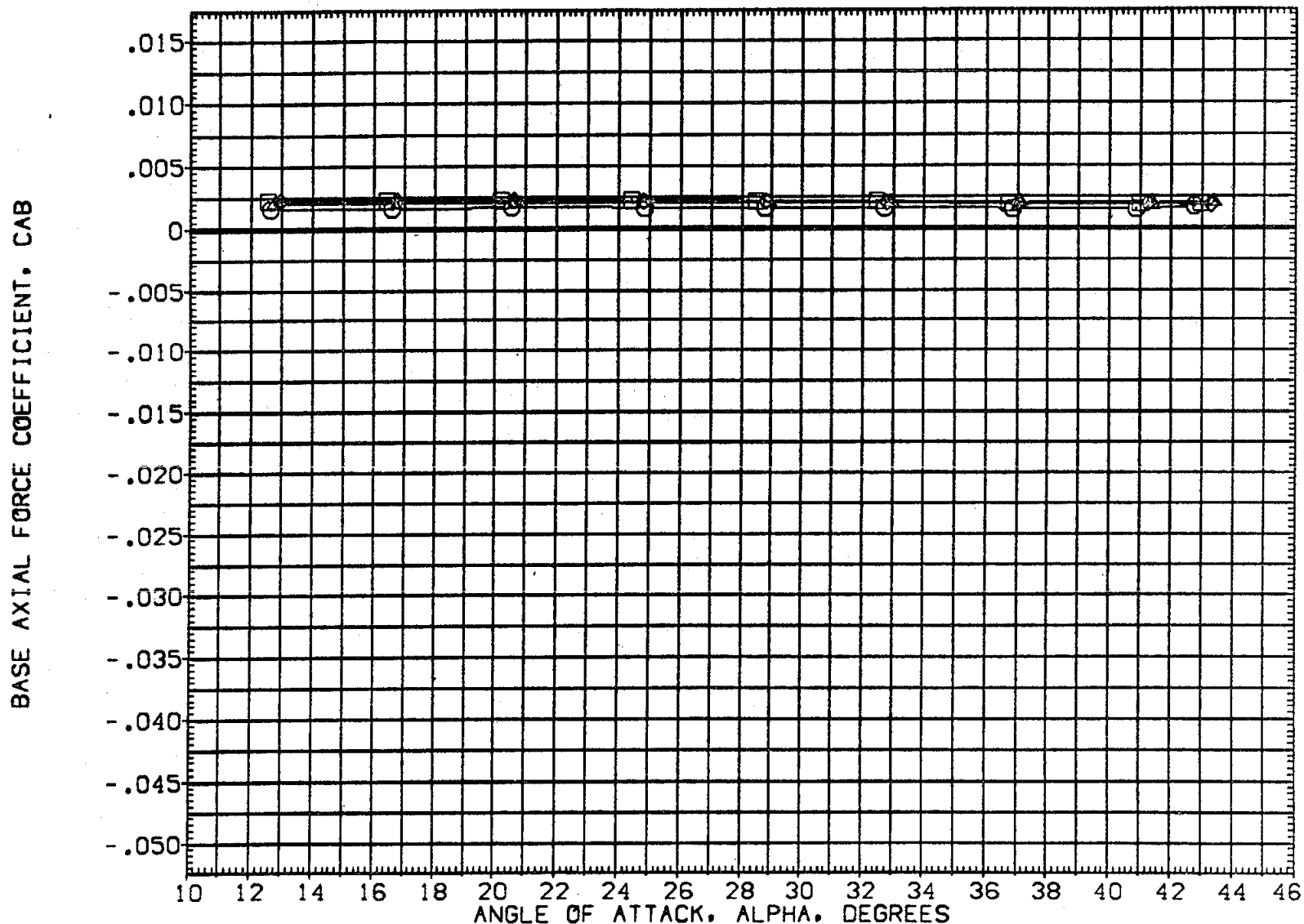


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	826 C9 M7 F7 V116 V8 E26 R5
(DEP021)	826 C9 M7 F7 V116 V8 E26 R5
(DEP012)	826 C9 M7 F7 V116 V8 E37 R5
(DEP008)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDRK	REFERENCE INFORMATION		
.000	.000	-11.700	55.000	SREF	2690.0000	50.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000	IN.
.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

BASE AXIAL FORCE COEFFICIENT, CAB

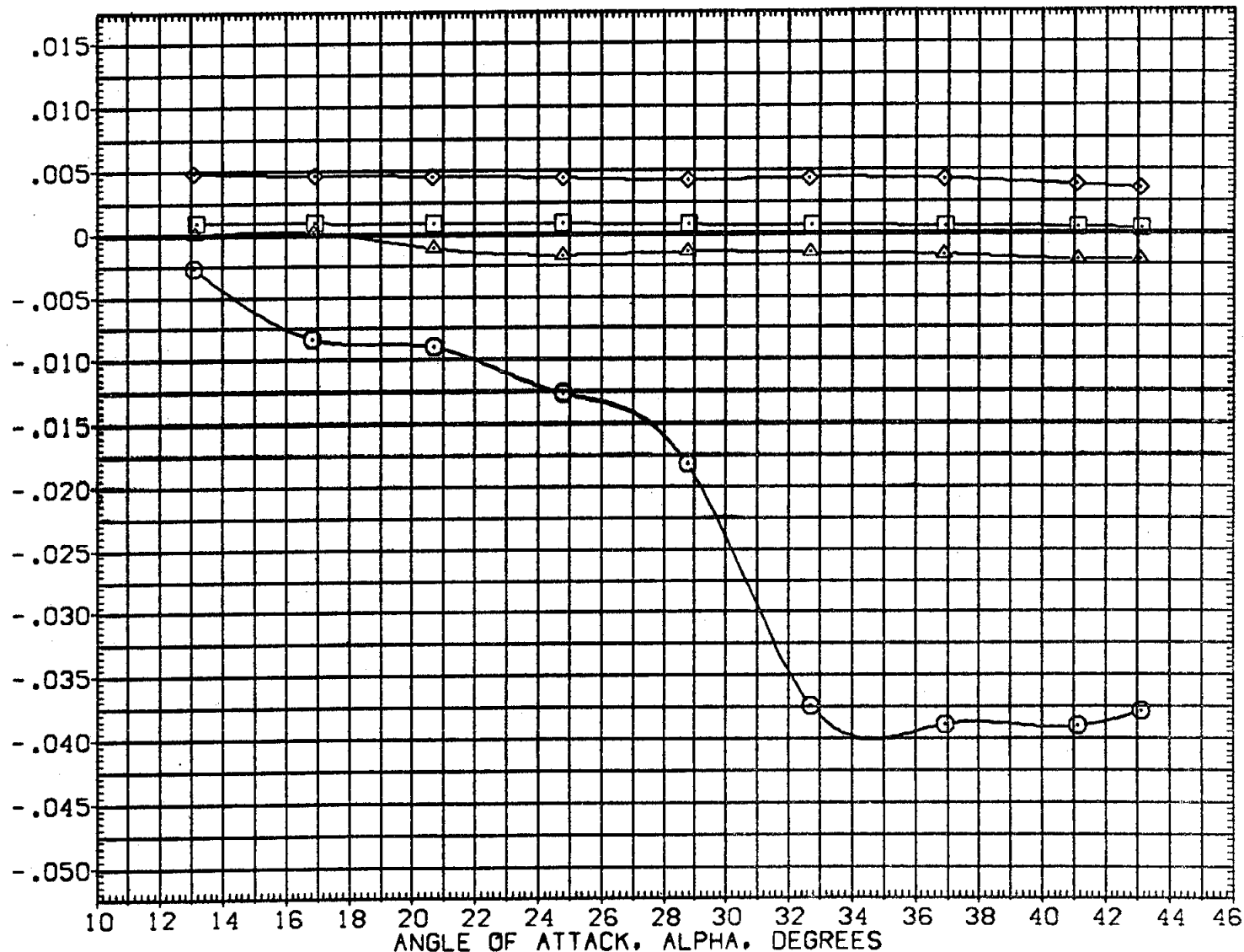


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	□ B26 C9 M7 F7 V116 V8 E26 R5
(DEP021)	◇ B26 C9 M7 F7 V116 V8 E26 R5
(DEP012)	◇ B26 C9 M7 F7 V116 V8 E37 R5
(DEP008)	△ B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	55.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000	IN.
.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

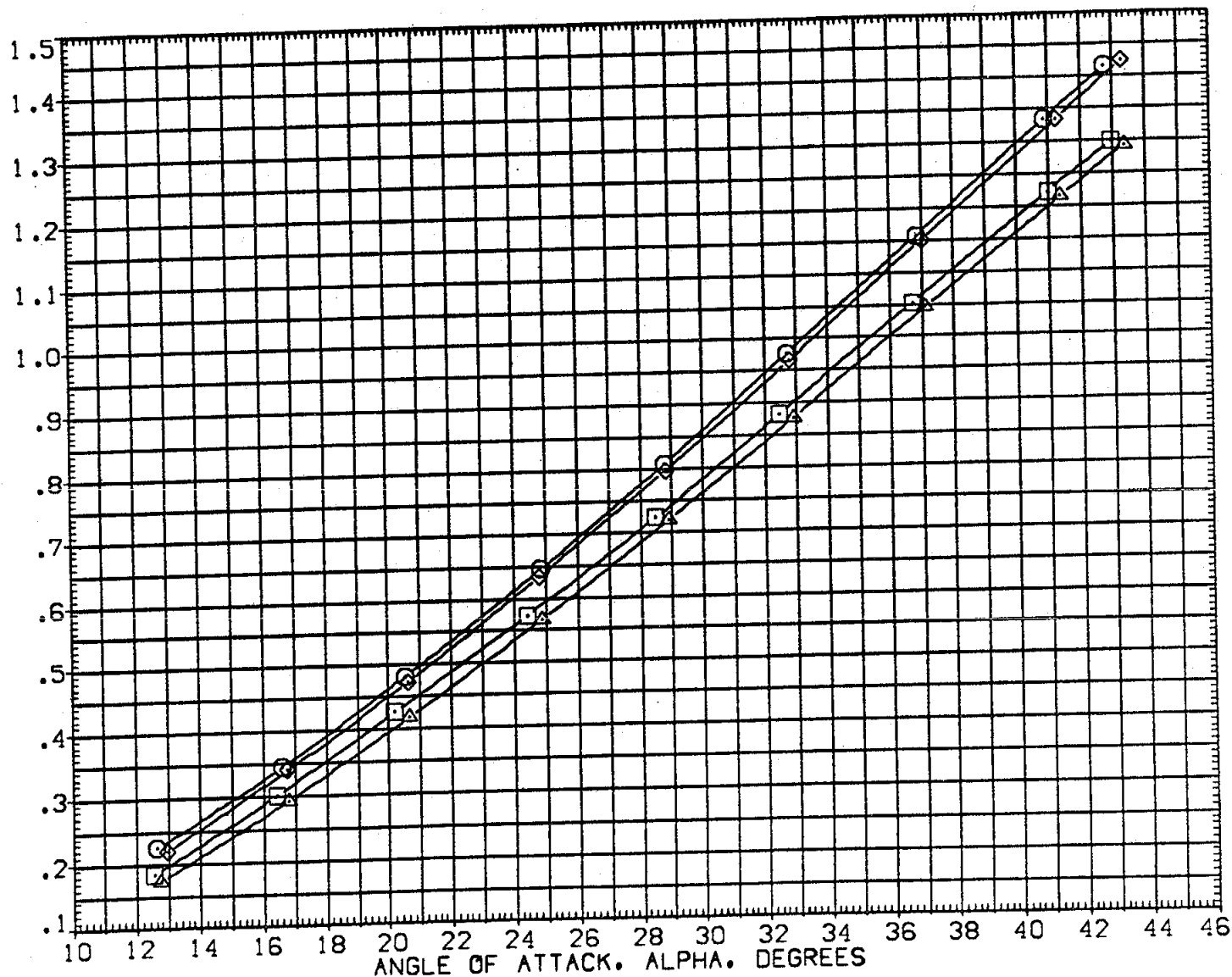


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.
(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	○ B26 C9 M7 F7 V116 V8 E26 R8
(DEP021)	□ B26 C9 M7 F7 V116 V8 E26 R5
(DEP012)	◇ B26 C9 M7 F7 V116 V8 E37 R5
(DEP008)	△ B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION		
.000	.000	-11.700	55.000	SREF	2690.0000	50. FT.
-40.000	.000	-11.700	55.000	LREF	474.8000	IN.
.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

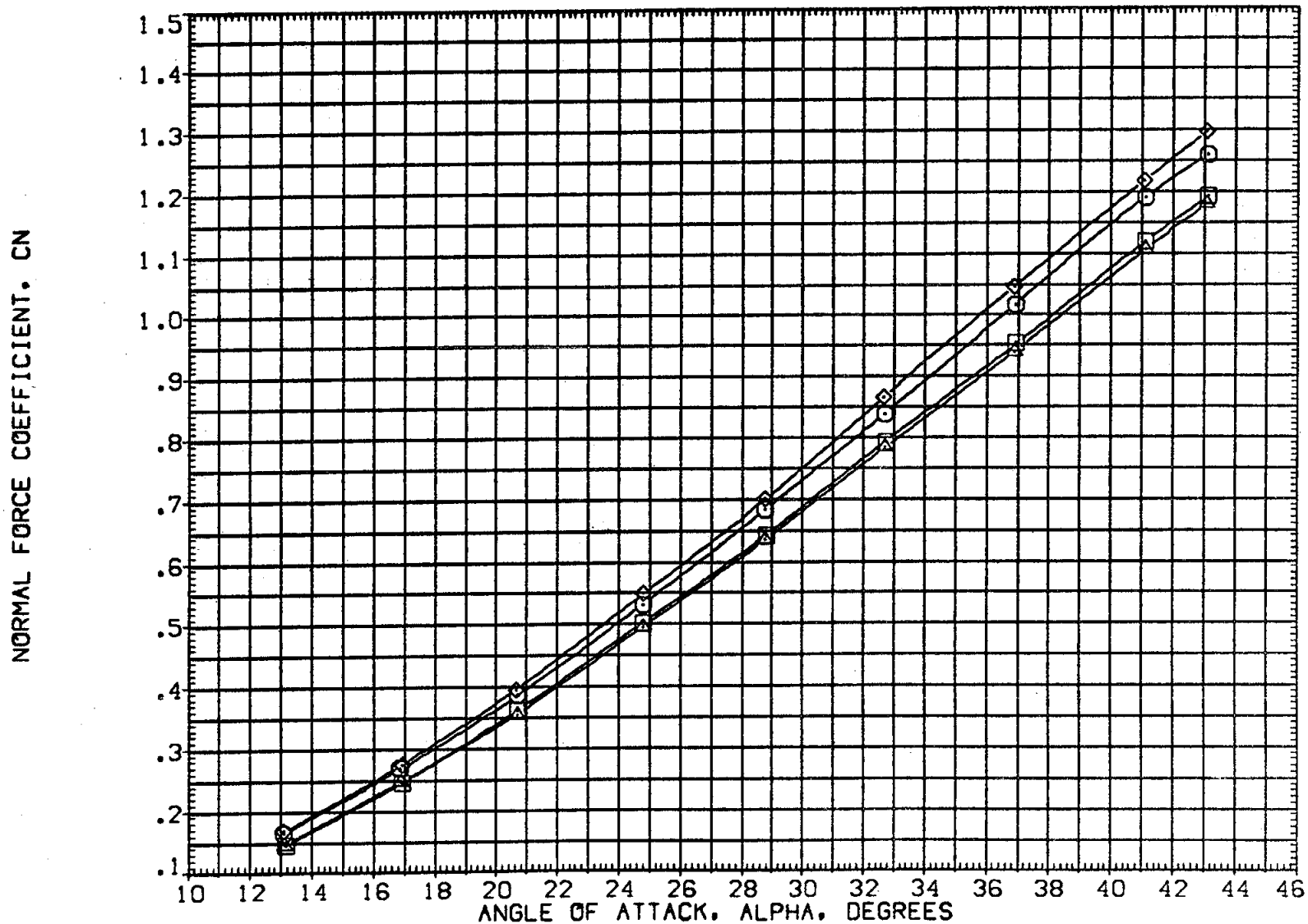


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	○	826 C9 M7 F7 V116 V8 E26 R5
(DEP021)	□	826 C9 M7 F7 V116 V8 E26 R5
(DEP012)	◇	826 C9 M7 F7 V116 V8 E37 R5
(DEP008)	△	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

PITCHING MOMENT COEFFICIENT ABOUT FORWARD CG • CLMFWD

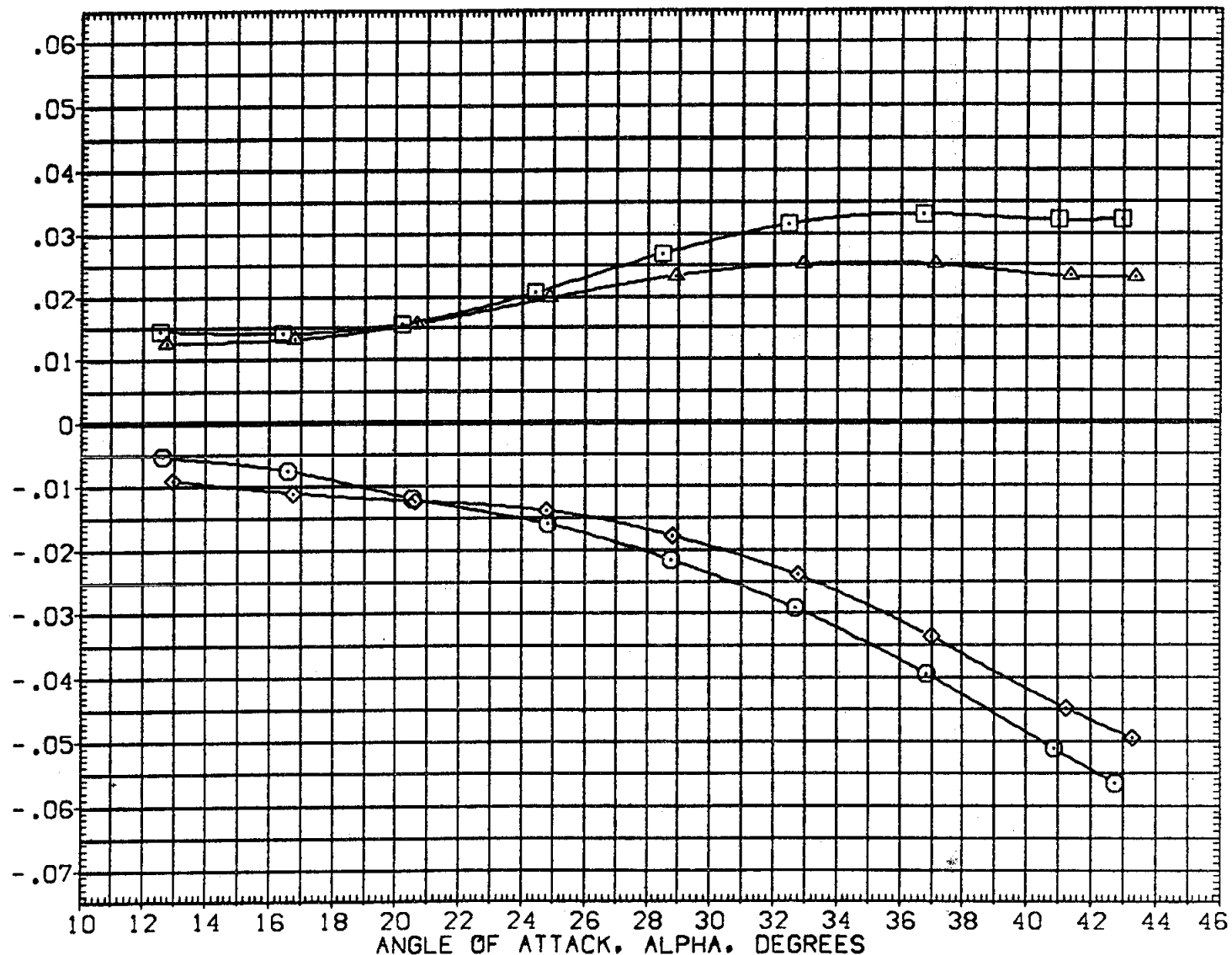


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	□ 826 C9 M7 F7 V116 V8 E26 R5
(DEP021)	□ 826 C9 M7 F7 V116 V8 E26 R5
(DEP012)	◇ 826 C9 M7 F7 V116 V8 E37 R5
(DEP008)	△ 826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOSRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

PITCHING MOMENT COEFFICIENT ABOUT FORWARD CG • CLMFWO

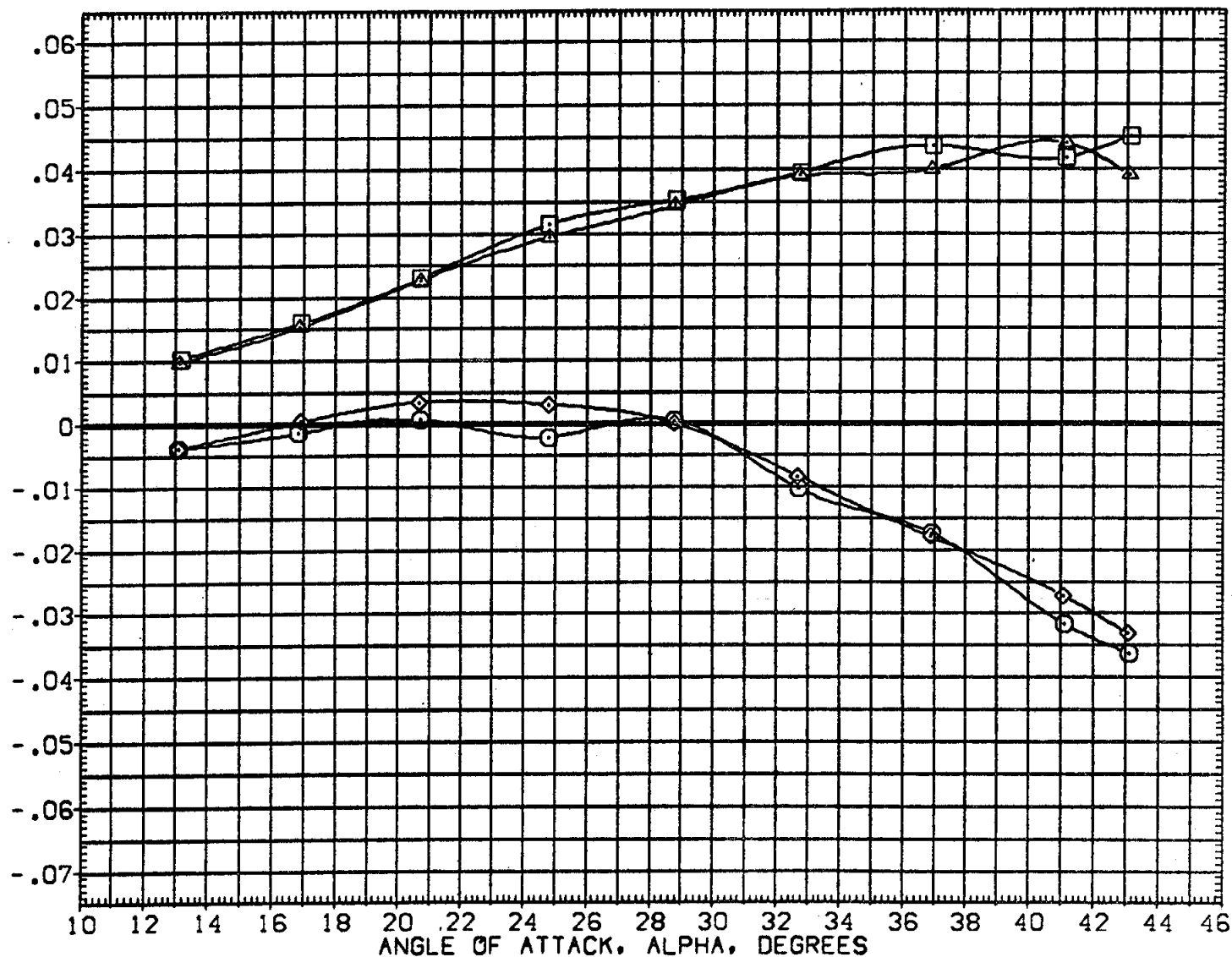


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEPO23)	□	826 C9 M7 F7 V116 V8 E26 R5
(DEPO21)	○	826 C9 M7 F7 V116 V8 E26 R6
(DEPO12)	◇	826 C9 M7 F7 V116 V8 E37 R6
(DEPO08)	△	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	55.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000	IN.
.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

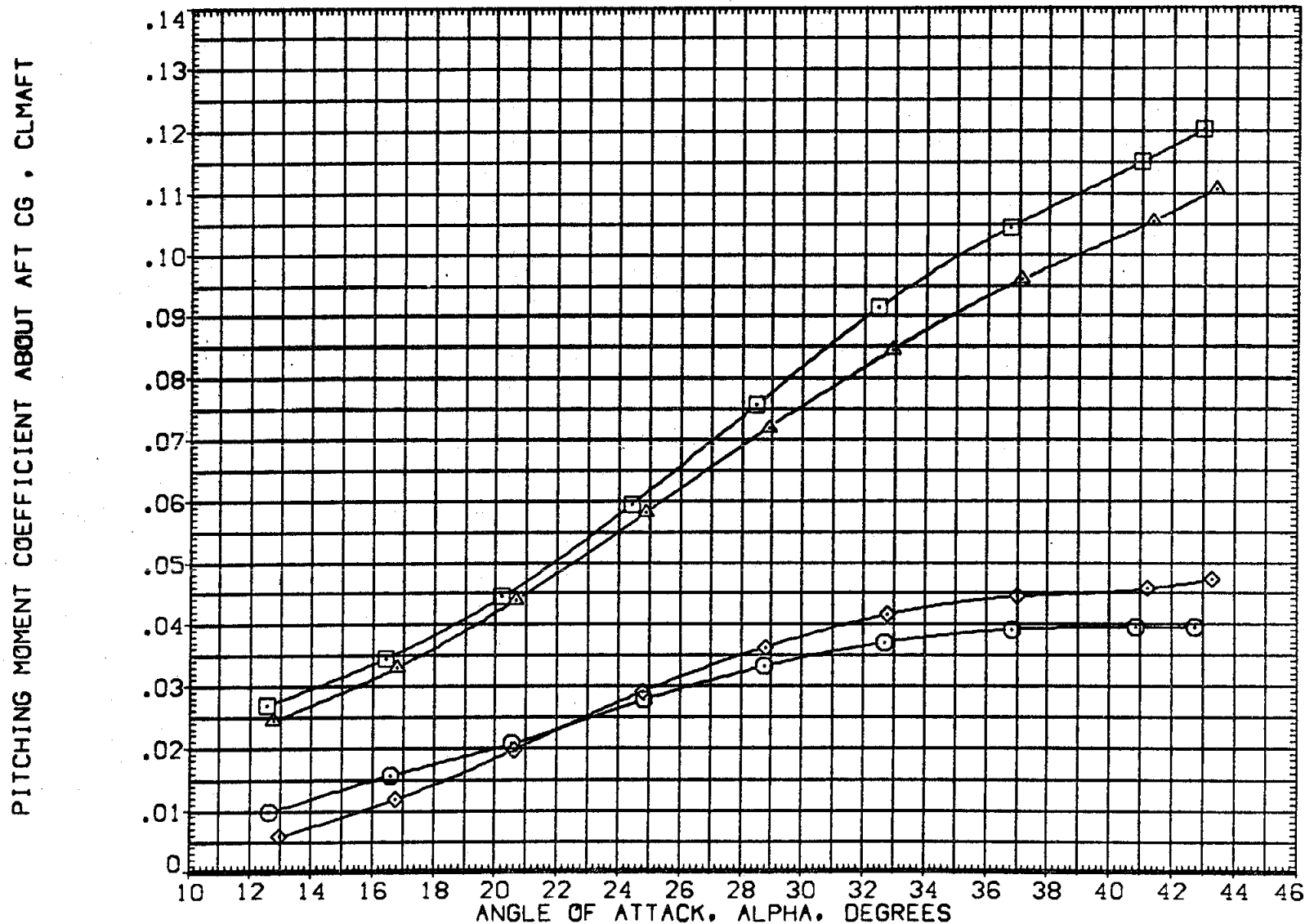


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	826 C9 M7 F7 V116 V8 E26 R5
(DEP021)	826 C9 M7 F7 V116 V8 E26 R5
(DEP012)	826 C9 M7 F7 V116 V8 E37 R5
(DEP008)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	DOFLAP	SPDRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

PITCHING MOMENT COEFFICIENT ABOUT AFT CG • CLMAFT

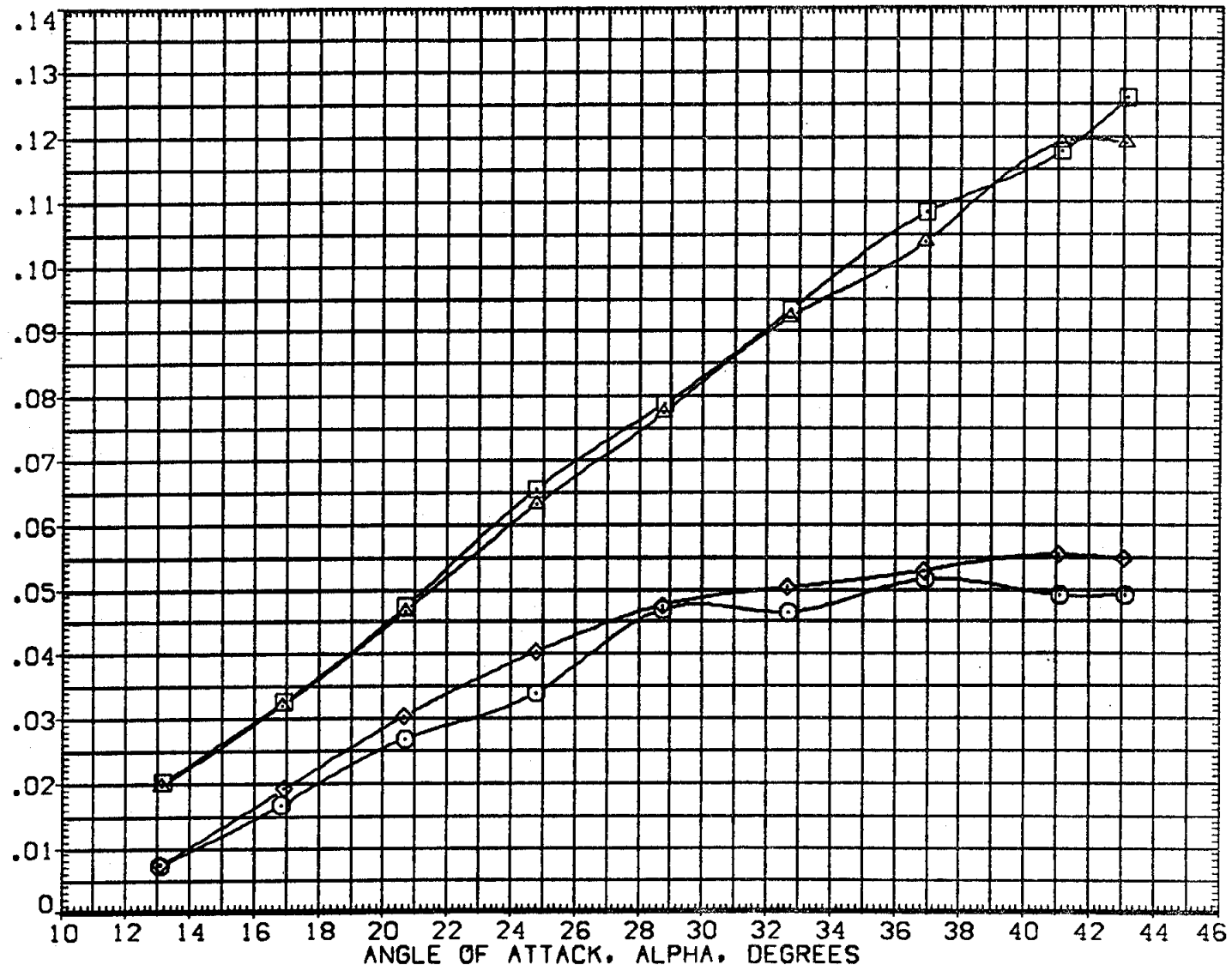


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	826 C9 M7 F7 V116 V8 E26 R6
(DEP021)	826 C9 M7 F7 V116 V8 E26 R6
(DEP012)	826 C9 M7 F7 V116 V8 E37 R6
(DEP008)	826 C9 M7 F7 V116 V8 E37 R6

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

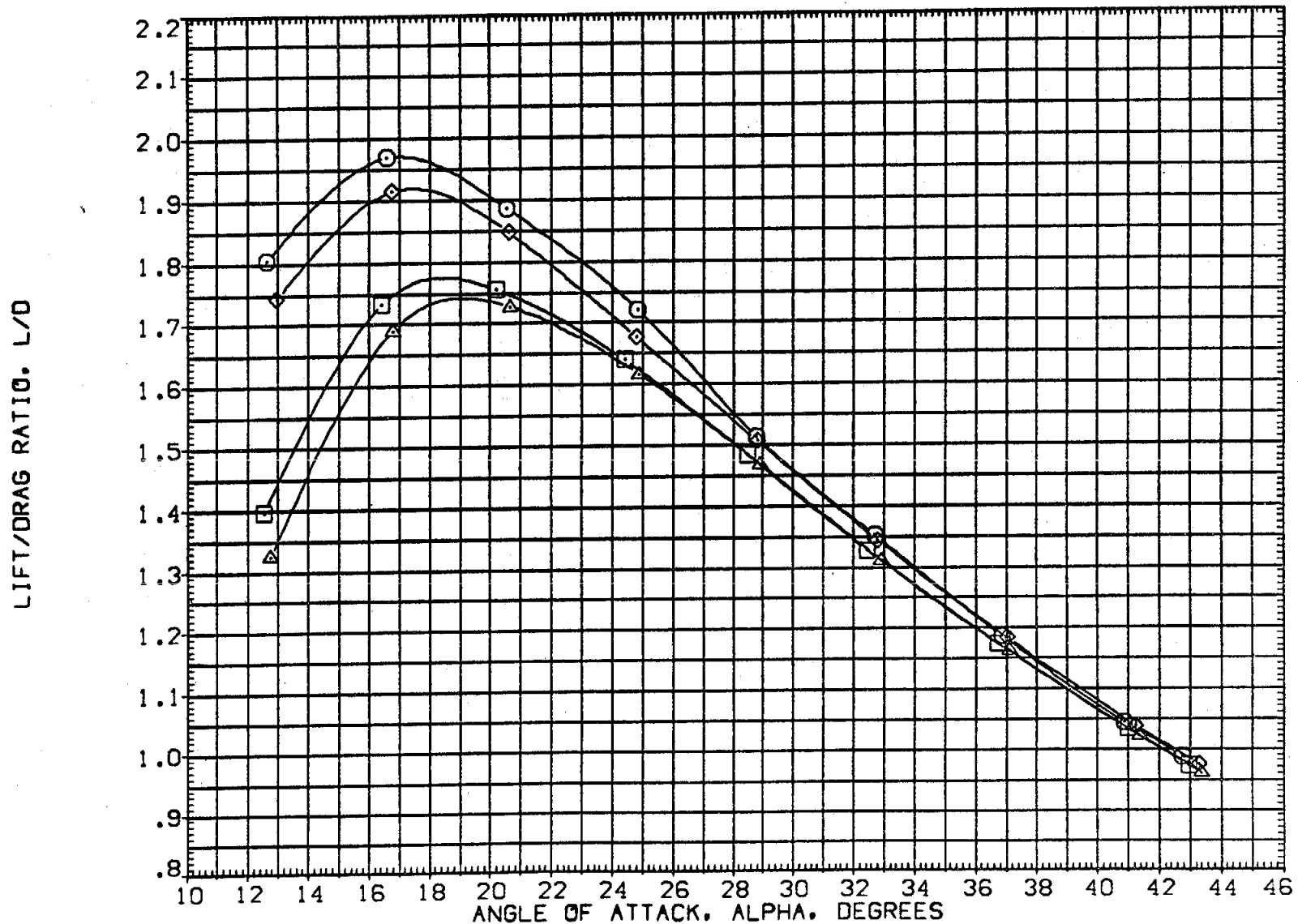


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	DOFLAP	SPOORX	REFERENCE INFORMATION		
(DEP023)	□ ○ B26 C9 M7 F7 V116 V8 E26 R5	.000	.000	-11.700	55.000	GREF	2050.0000	60.FT.
(DEP021)	□ ○ B26 C9 M7 F7 V116 V8 E26 R5	-40.000	.000	-11.700	55.000	LREF	474.9000	IN.
(DEP012)	□ ◇ B26 C9 M7 F7 V116 V8 E37 R5	.000	.000	-11.700	55.000	GREF	936.7000	IN.
(DEP008)	□ △ B26 C9 M7 F7 V116 V8 E37 R5	-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	375.0000	IN.
						SCALE	.0150	

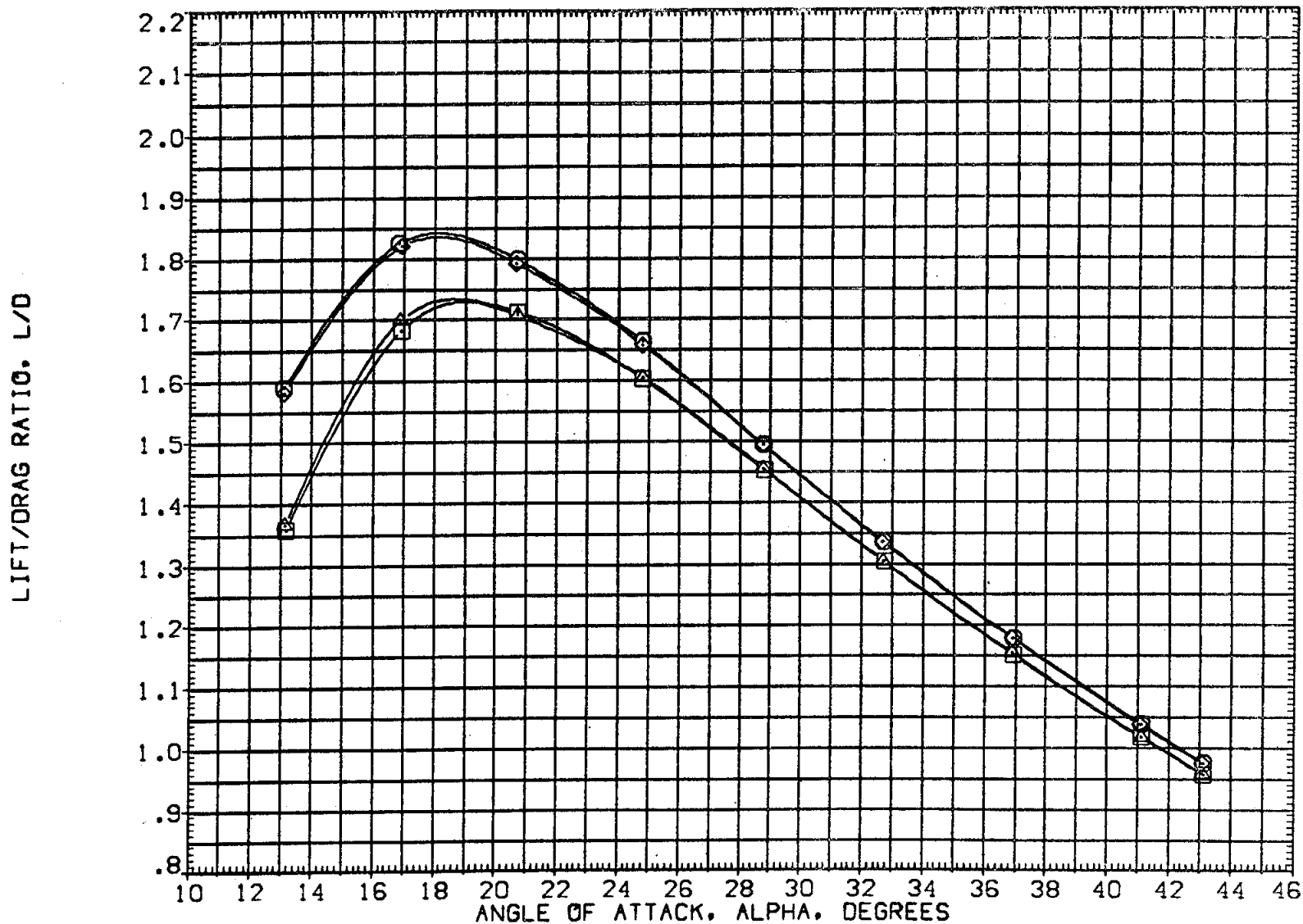


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
DEP023	○	B26 C9 M7 F7 V116 V8 E26 R5
DEP021	□	B26 C9 M7 F7 V116 V8 E26 R5
DEP012	◇	B26 C9 M7 F7 V116 V8 E37 R5
DEP008	△	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

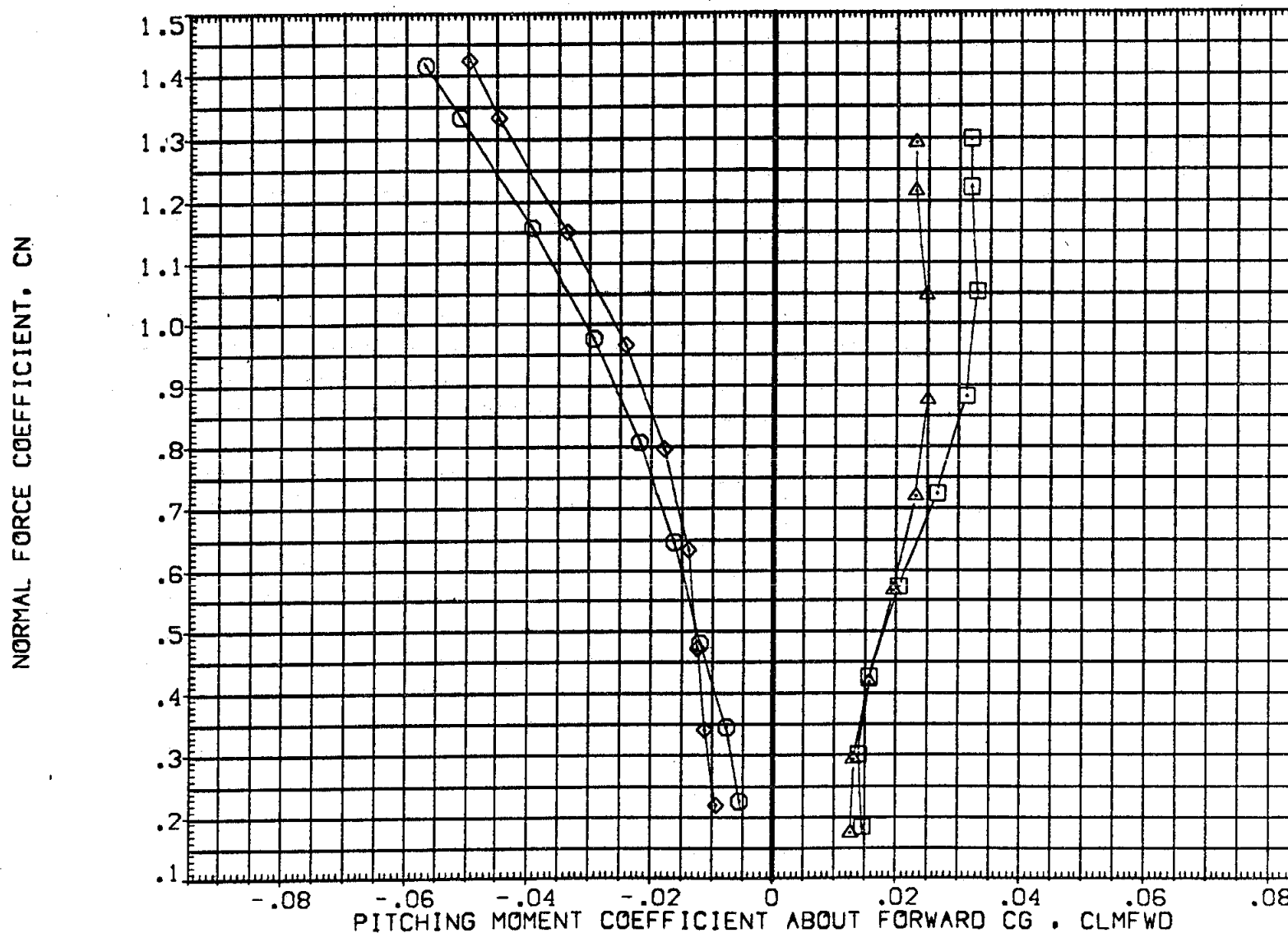


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ALTRN	BOFLAP	SFOBRK	REFERENCE INFORMATION	
(DEP023)	826 C9 M7 F7 V116 V8 E26 R5	.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
(DEP021)	826 C9 M7 F7 V116 V8 E26 R5	-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
(DEP012)	826 C9 M7 F7 V116 V8 E37 R5	.000	.000	-11.700	55.000	BREF	926.7000 IN.
(DEP008)	826 C9 M7 F7 V116 V8 E37 R5	-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
						YMRP	.0000 IN.
						ZMRP	375.0000 IN.
						SCALE	.0150

NORMAL FORCE COEFFICIENT, CN

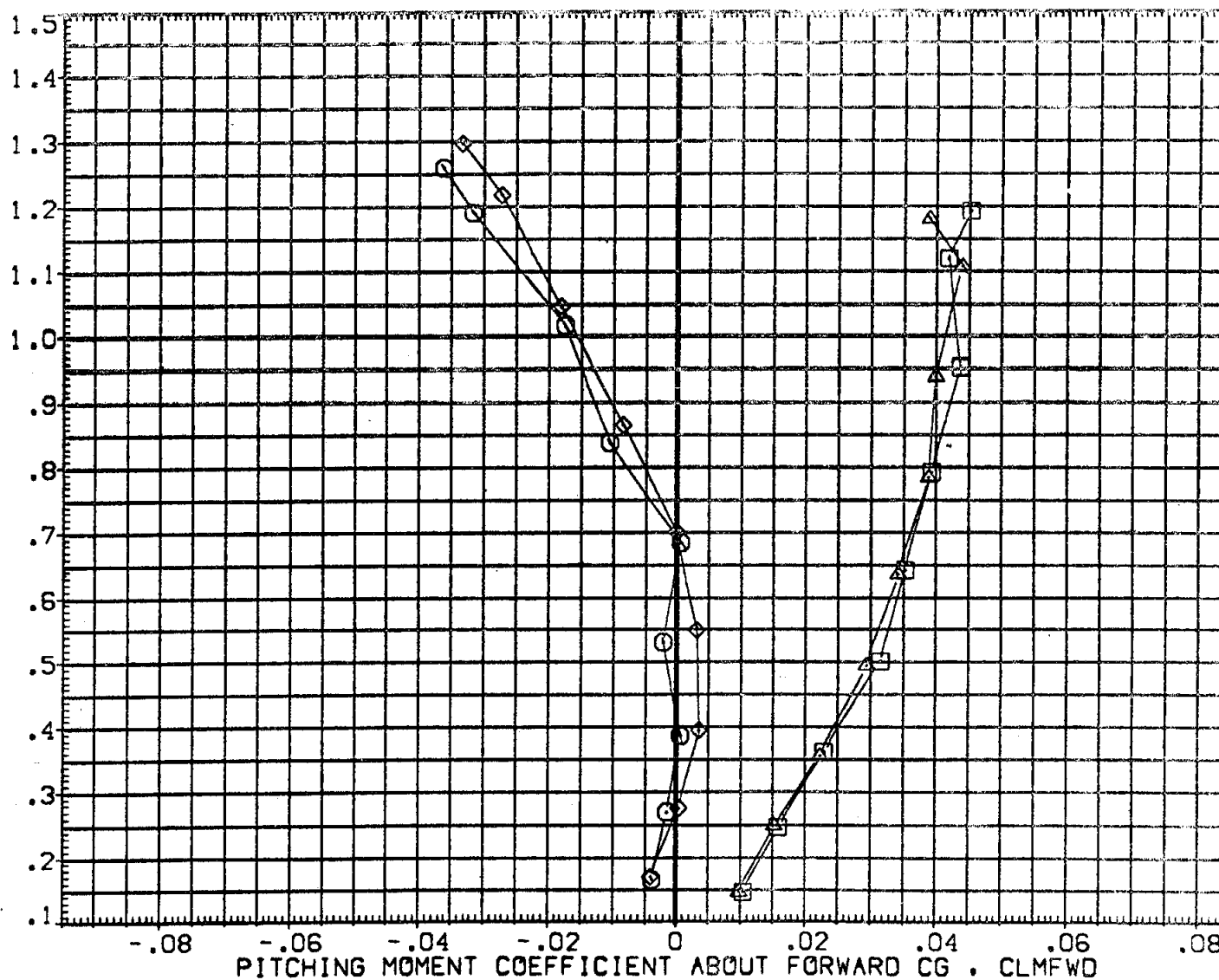
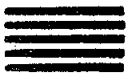


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	826 C9 M7 F7 V116 V8 E26 R3
(DEP021)	826 C9 M7 F7 V116 V8 E26 R3
(DEP012)	826 C9 M7 F7 V116 V8 E37 R3
(DEP008)	826 C9 M7 F7 V116 V8 E37 R3

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	55.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000	IN.
.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	



FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP023)	826 C9 M7 F7 V116 V8 E26 R5
(DEP021)	826 C9 M7 F7 V116 V8 E26 R3
(DEP012)	826 C9 M7 F7 V116 V8 E37 R3
(DEP008)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILERON	SOFLAP	SPOILER	REFERENCE INFORMATION
.000	.000	-11.700	55.000	SREF 2680.0000 50. FT.
-40.000	.000	-11.700	55.000	LREF 474.8000 IN.
.000	.030	-11.700	55.000	BREF 933.7000 IN.
-40.000	.000	-11.700	55.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

LIFT COEFFICIENT, CL

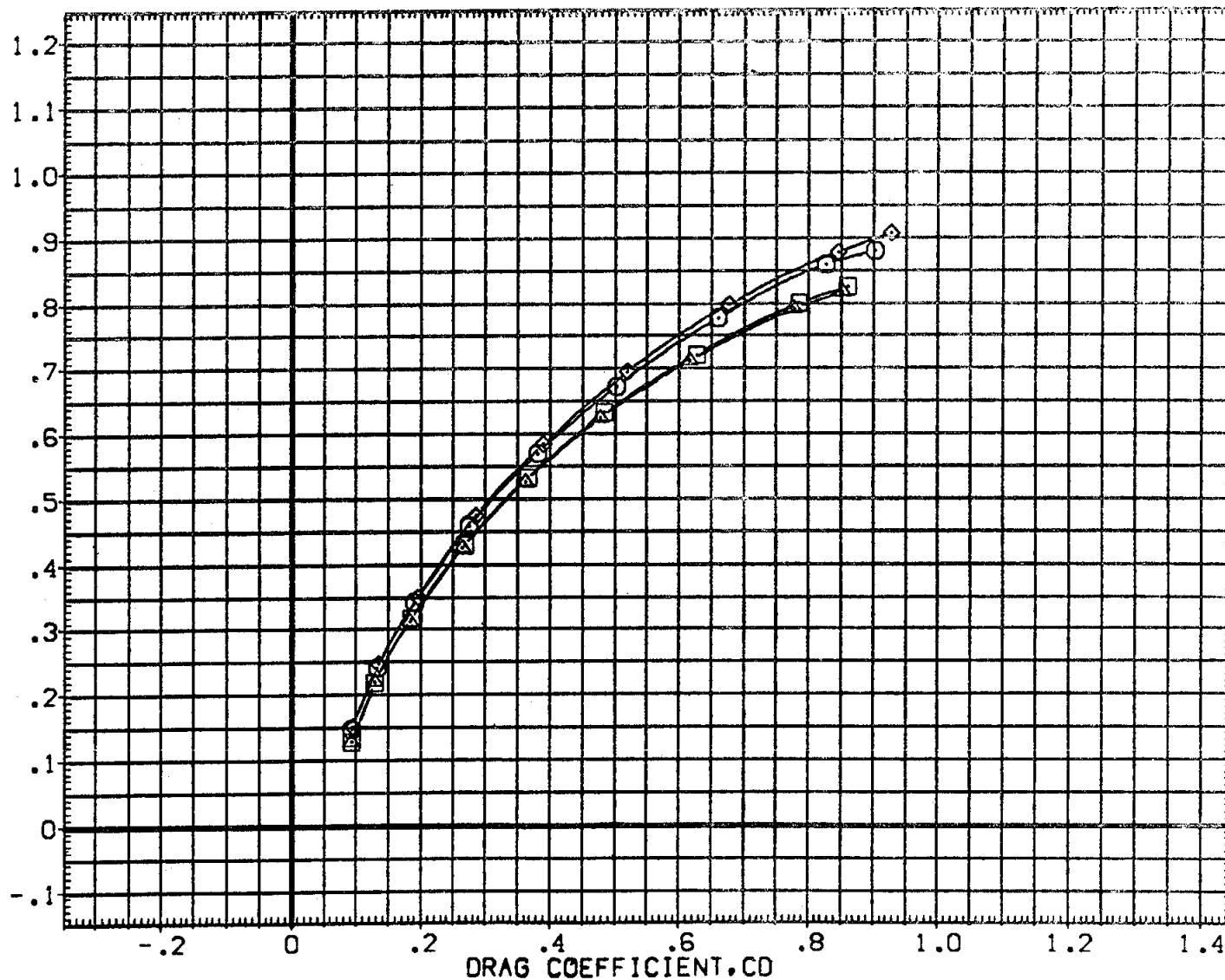


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.
(B)MACH = 10.27

LONGITUDINAL CENTER OF PRESSURE LOCATION, XCP/L(PERCENT OF BODY LENGTH)

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(AEP023)	○	B26 C9 M7 F7 V116 V8 E26 R5
(AEP021)	□	B26 C9 M7 F7 V116 V8 E26 R5
(AEP012)	◇	B26 C9 M7 F7 V116 V8 E37 R5
(AEP008)	△	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION		
.000	.000	-11.700	55.000	SREF	2690.0000	50. FT.
-40.000	.000	-11.700	55.000	LREF	474.8000	IN.
.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

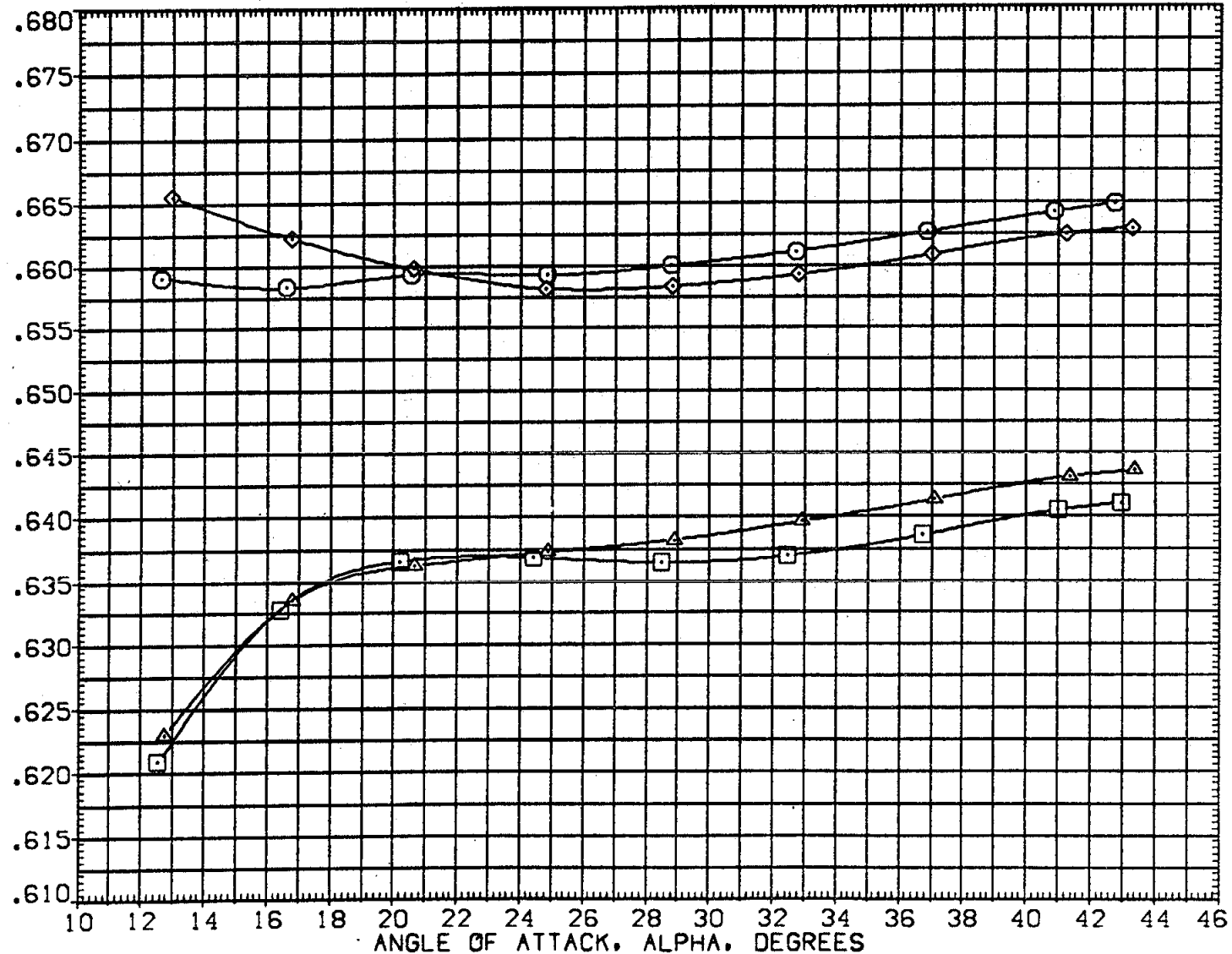


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

LONGITUDINAL CENTER OF PRESSURE LOCATION, XCP/L(PERCENT OF BODY LENGTH)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP023)	826 C9 M7 F7 V116 V8 E26 R5
(AEP021)	826 C9 M7 F7 V116 V8 E26 R5
(AEP012)	826 C9 M7 F7 V116 V8 E37 R5
(AEP008)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BDFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

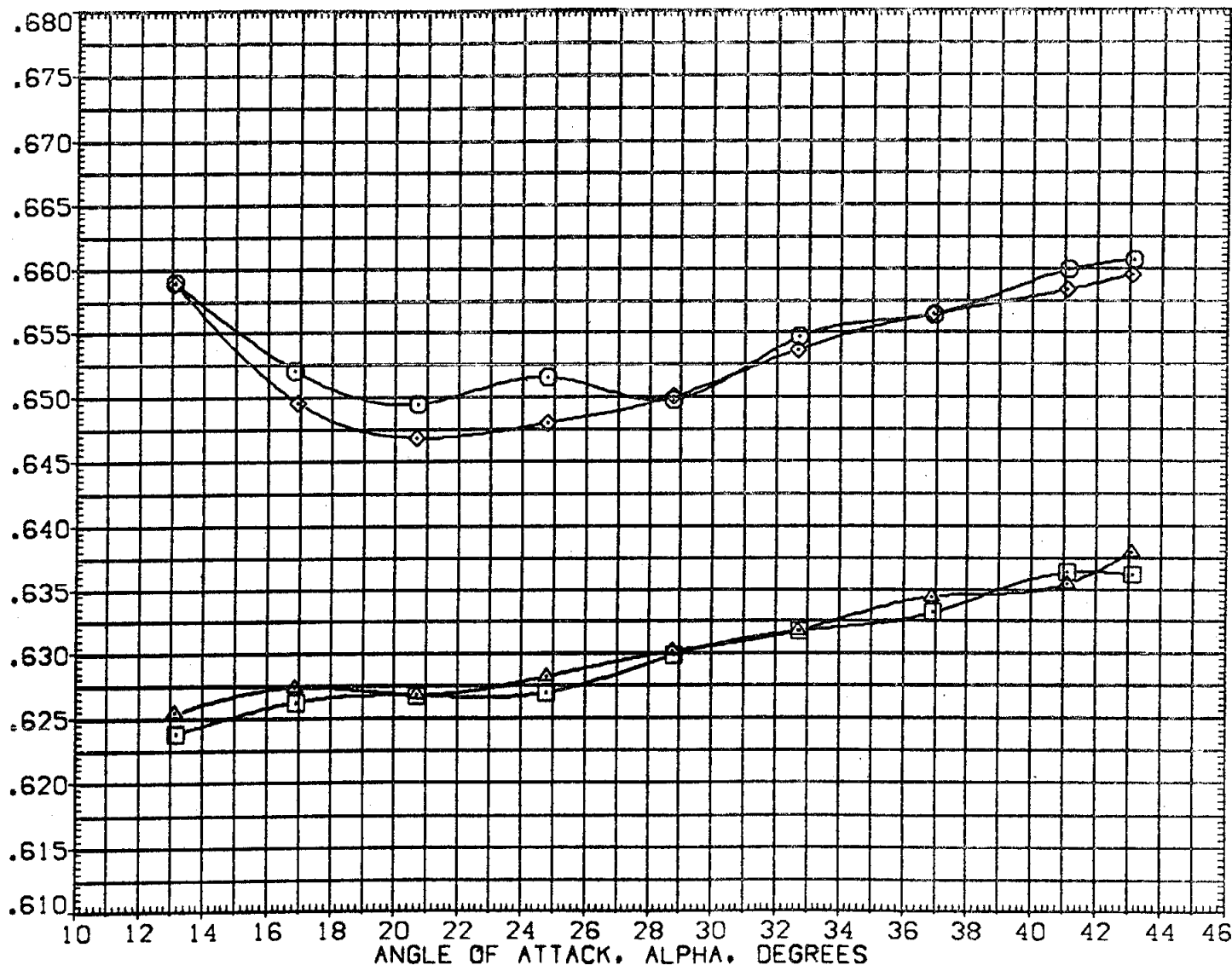


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21) ○	826 C9 M7 F7 V116 V8 E26 R5
(GEPO08) □	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BDFLAP	SPOBRK
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL LIFT COEFFICIENT • DCL

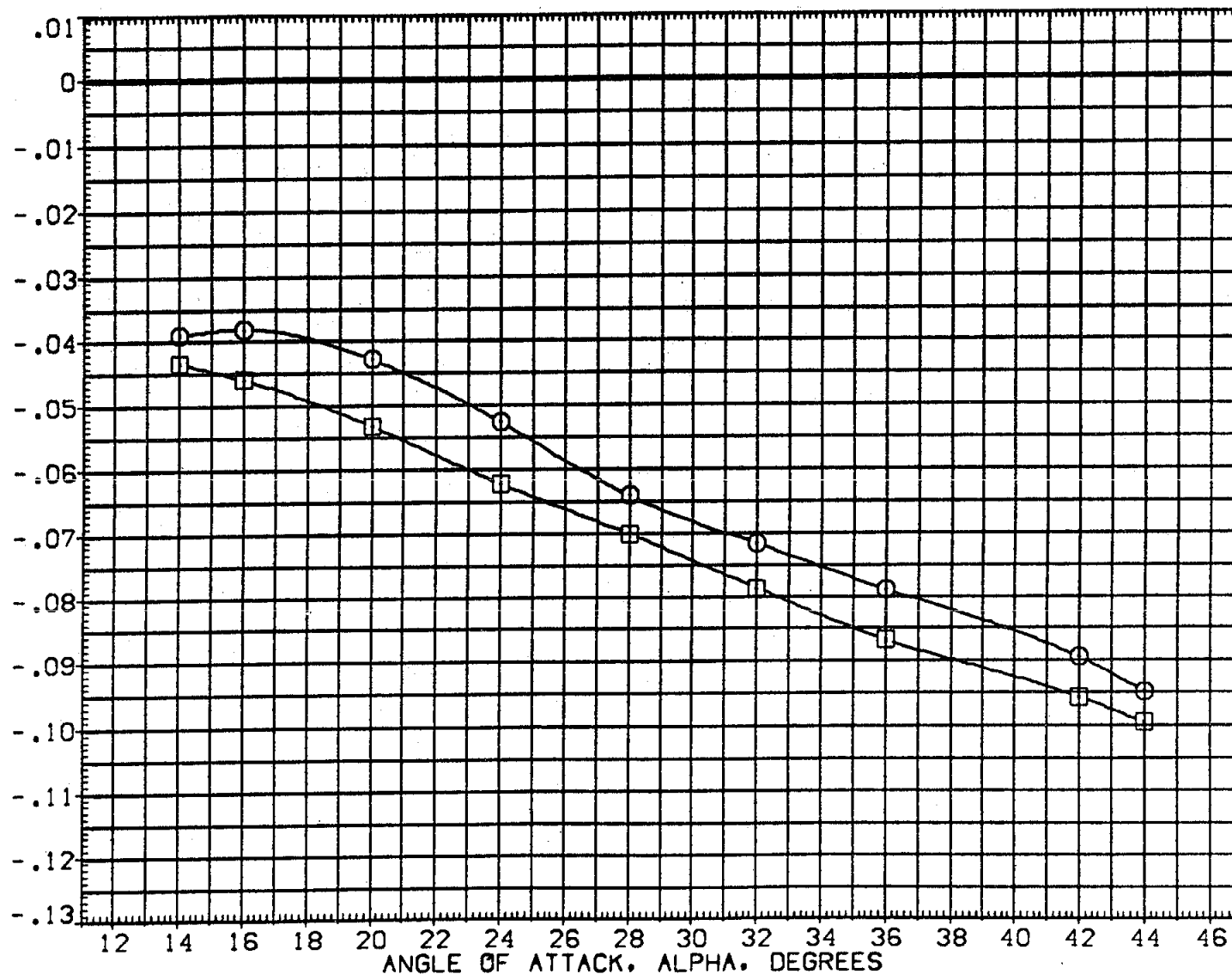


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A) MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21)	826 C9 M7 F7 W116 V8 E26 R5
(GEPO08)	826 C9 M7 F7 W116 V8 E37 R5

DELEVN	AILEVN	ROFLAP	SPDRK
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL LIFT COEFFICIENT • DCL

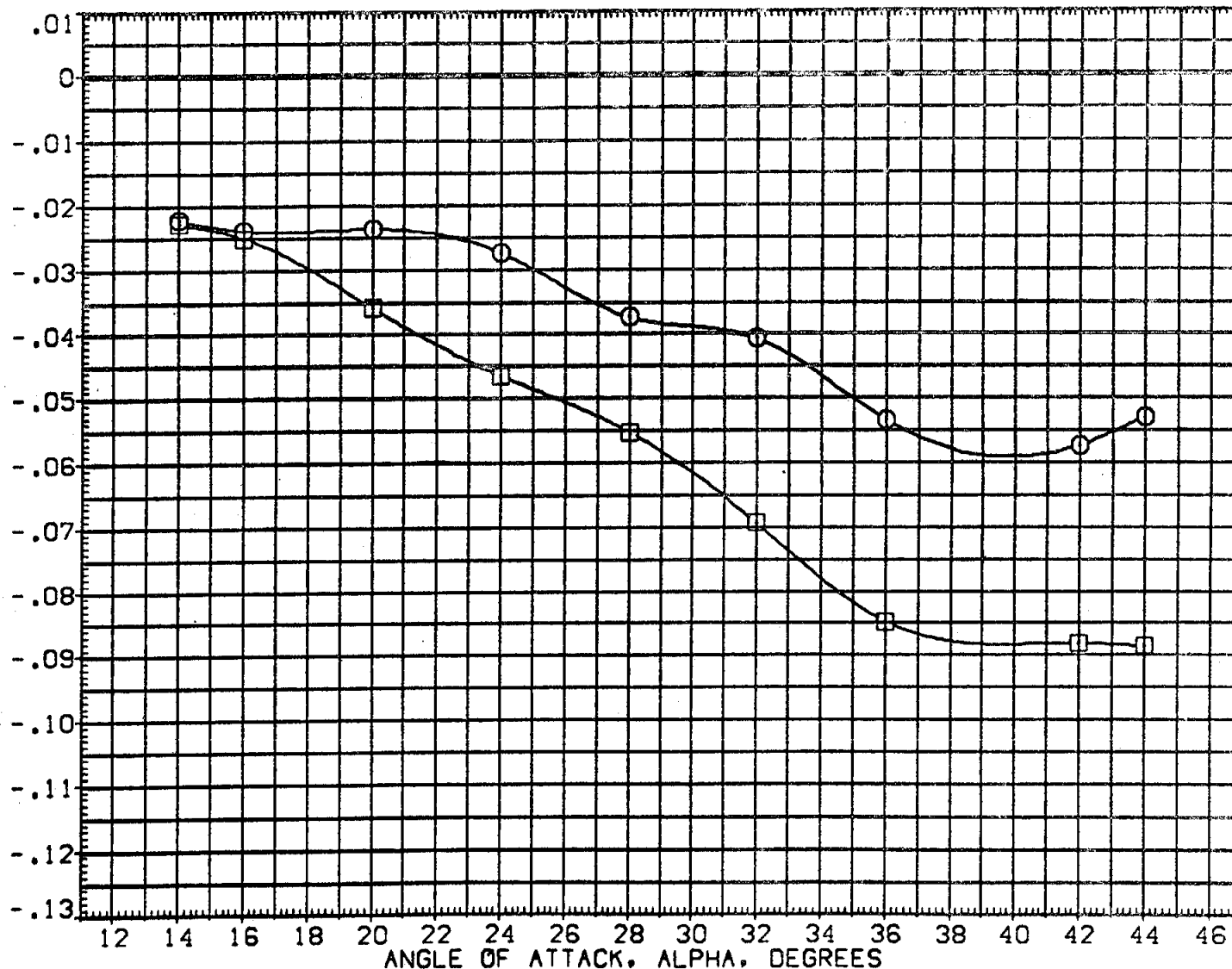


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.
(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21)	○ B26 C9 M7 F7 V116 V8 E26 R5
(GEPO08)	□ B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL DRAG COEFFICIENT • DCD

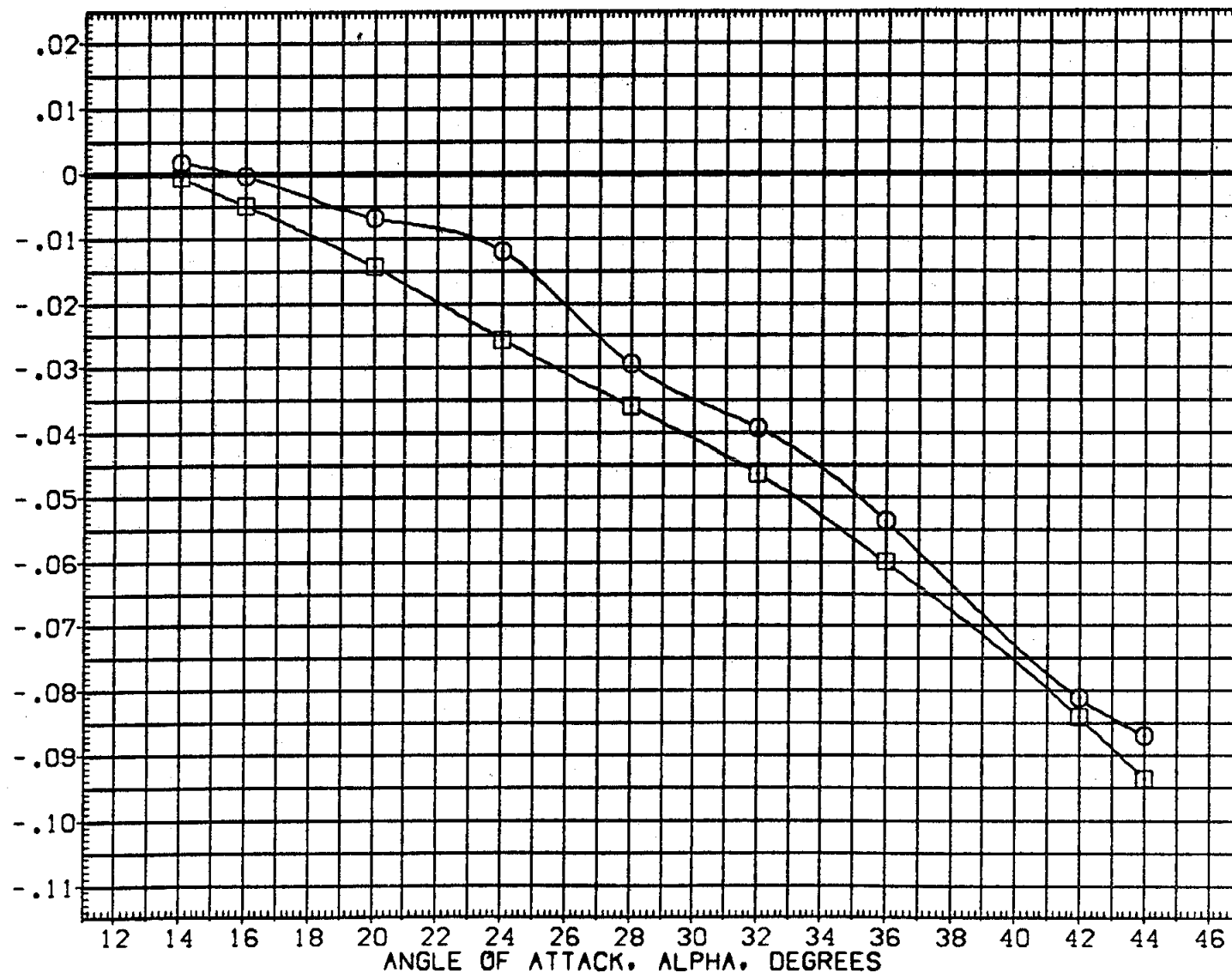


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GE021) ○	B26 C9 M7 F7 W116 V8 E26 R5
(GE008) □	B26 C9 M7 F7 W116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL DRAG COEFFICIENT • DCD

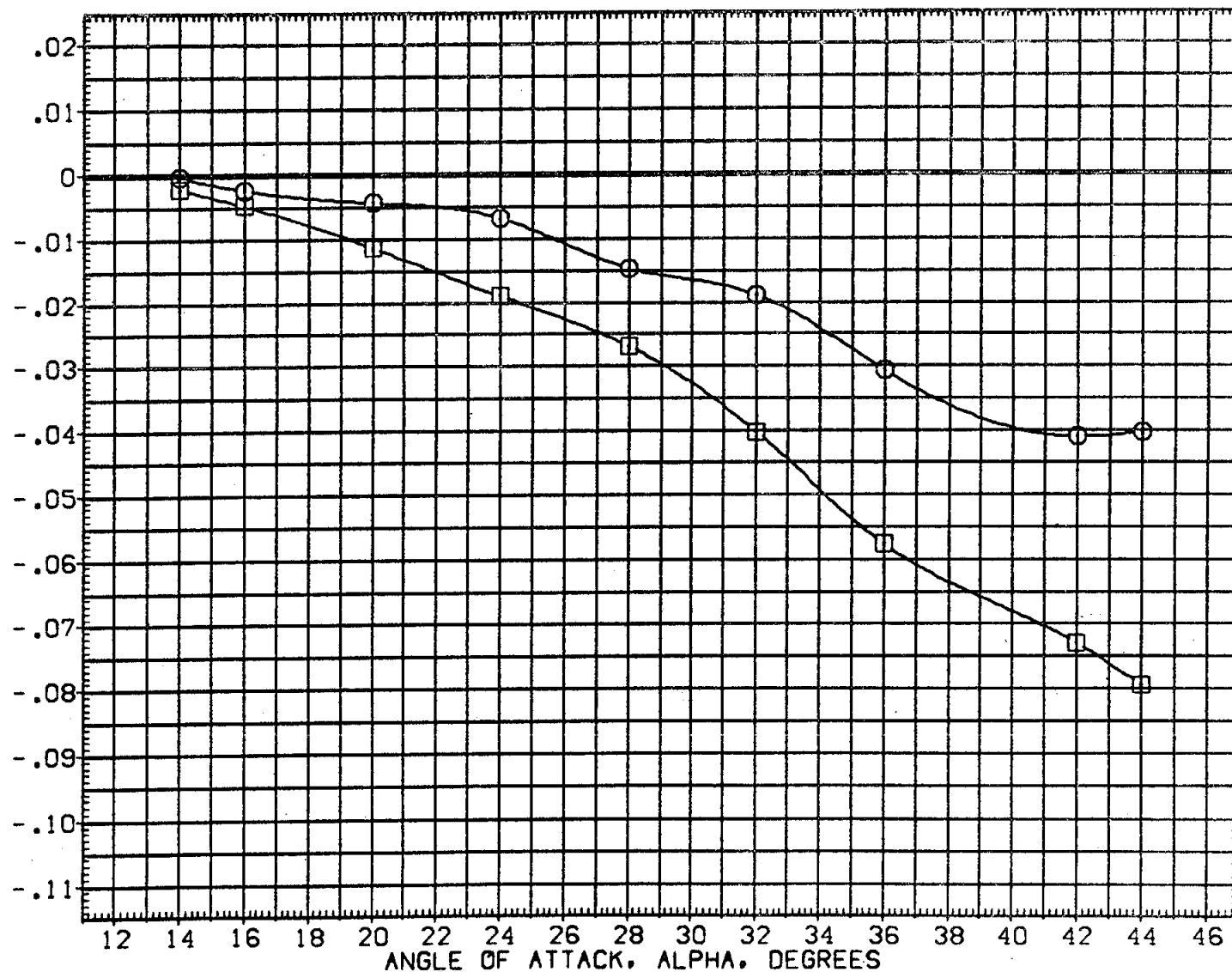


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21) ○	B26 C9 M7 F7 V116 V8 E26 R5
(GEPO08) □	B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

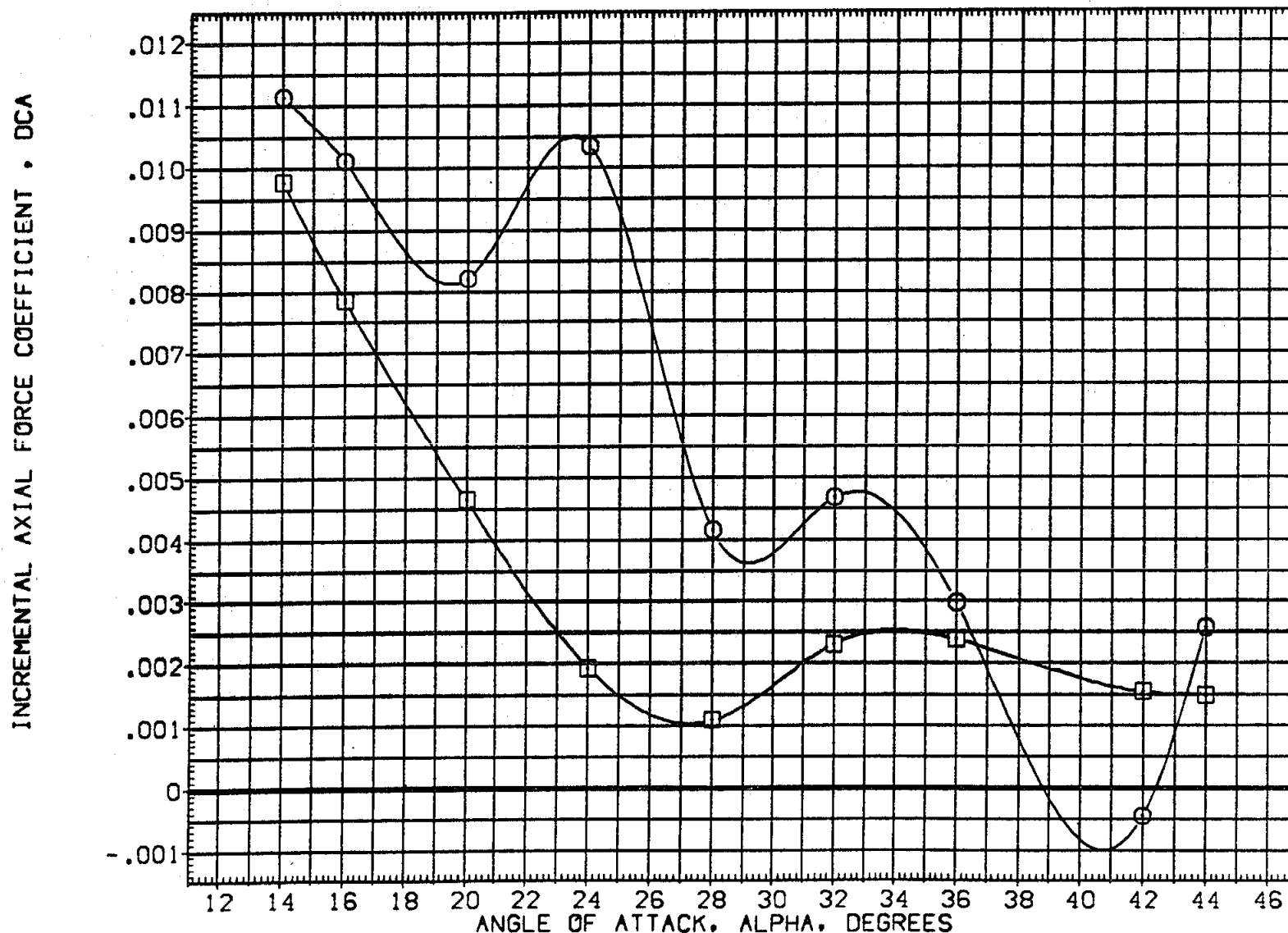


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21) \square	B26 C9 M7 F7 V116 V8 E26 R5
(GEPO08) \square	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDBRK
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL AXIAL FORCE COEFFICIENT • DCA

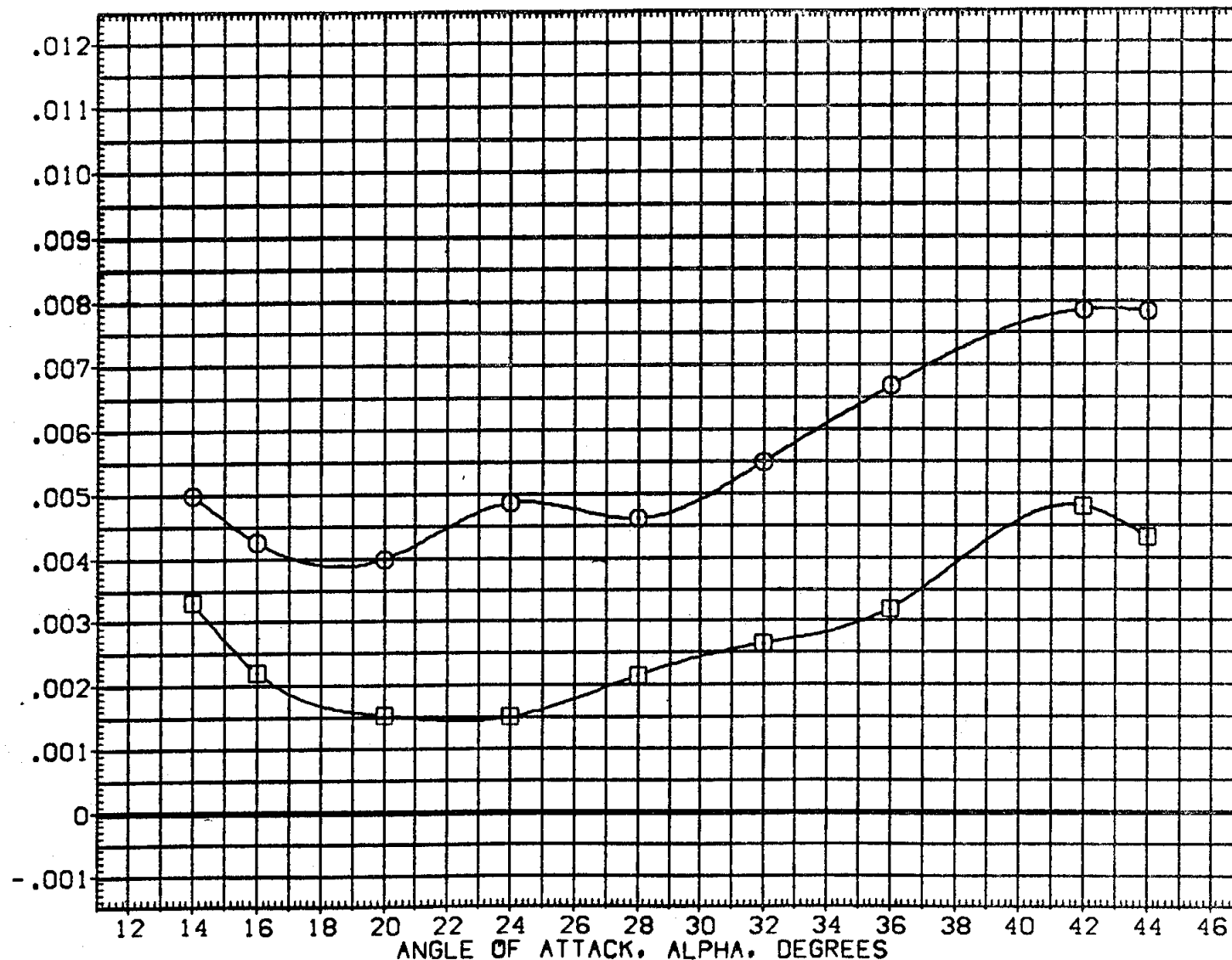


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21)	826 C9 M7 F7 V116 V8 E26 R5
(GEPO08)	826 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

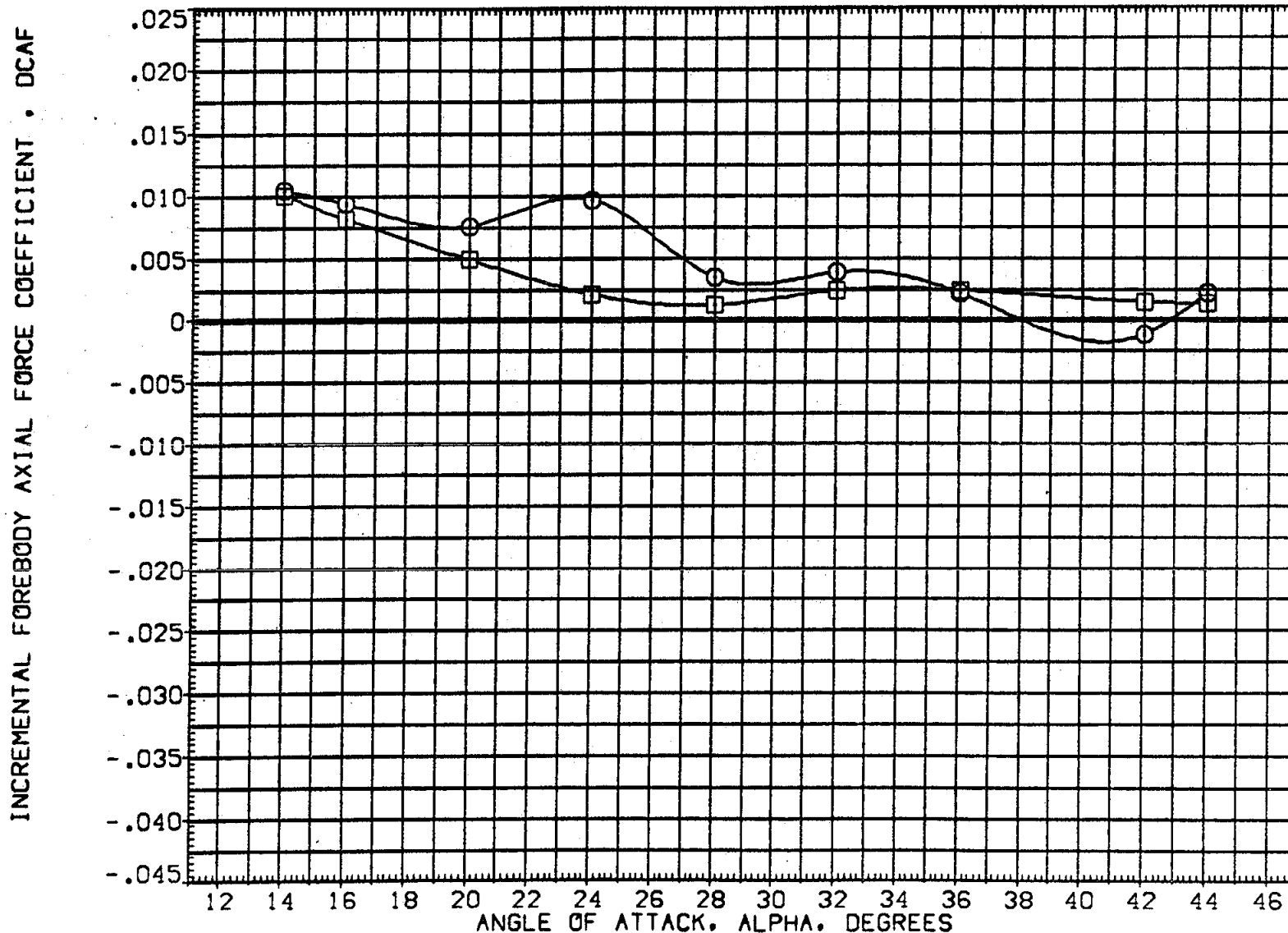


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21)	B26 C9 M7 F7 W116 V8 E26 R5
(GEPO08)	B26 C9 M7 F7 W116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRF	1076.7000 IN.
				YMRF	.0000 IN.
				ZMRF	375.0000 IN.
				SCALE	.0150

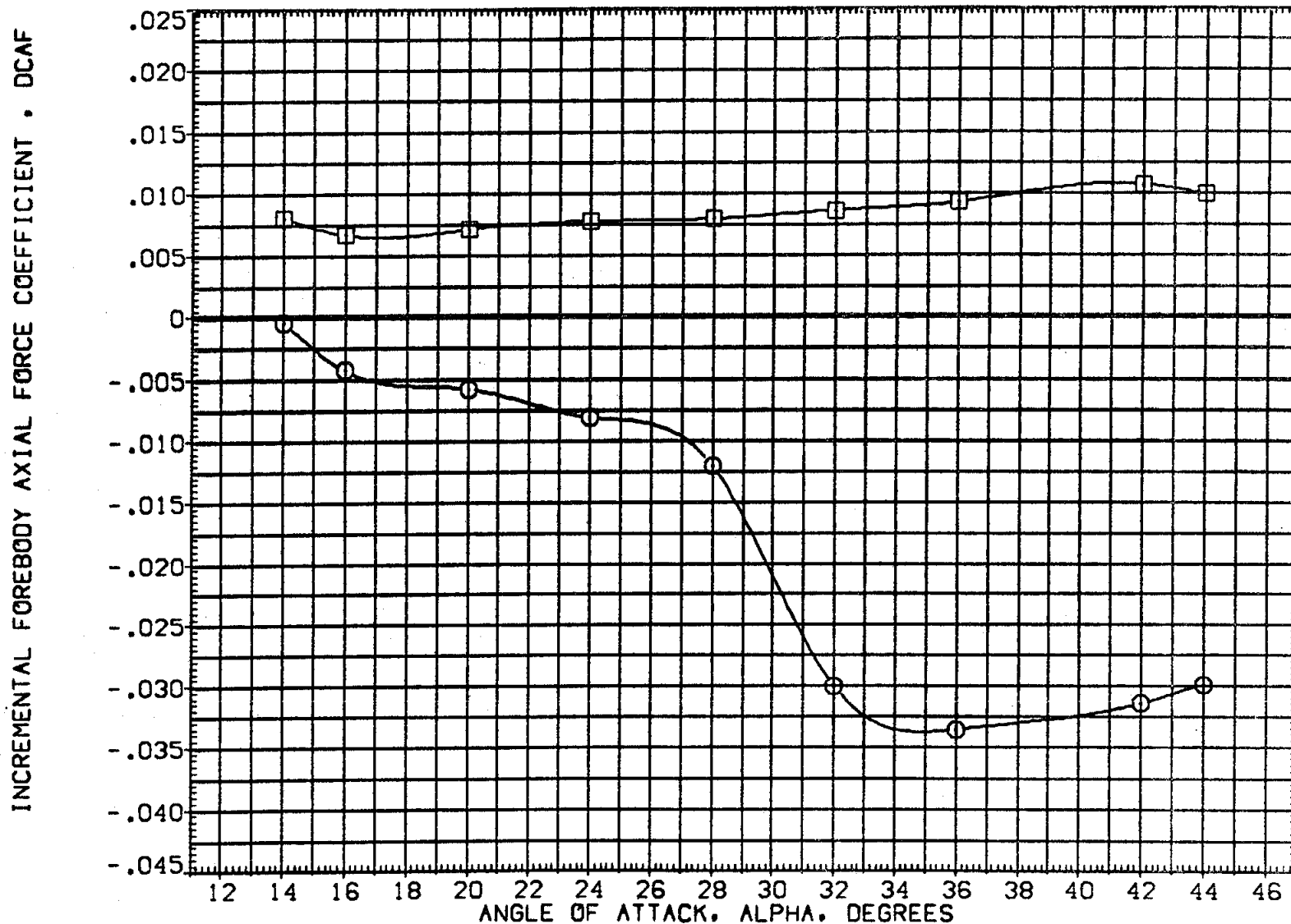


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21)	B26 C9 M7 F7 V116 V8 E26 R5
(GEPO08)	B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPDBRK
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL BASE AXIAL FORCE COEFFICIENT • DCAB

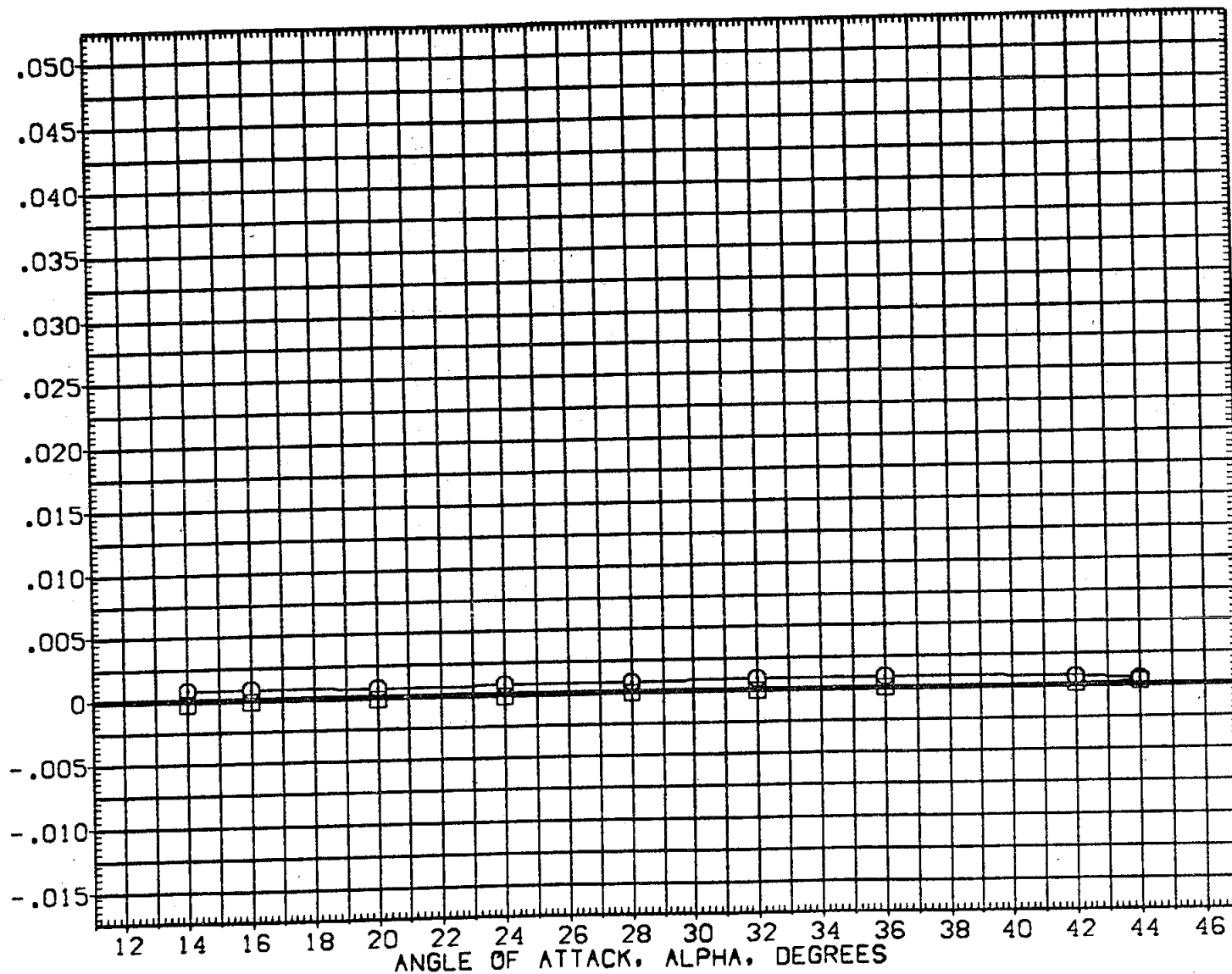


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GE021) ○	B26 C9 M7 F7 W116 V8 E26 R5
(GE008) □	B26 C9 M7 F7 W116 V8 E37 R5

DELEVN	A1LRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL BASE AXIAL FORCE COEFFICIENT, DCAB

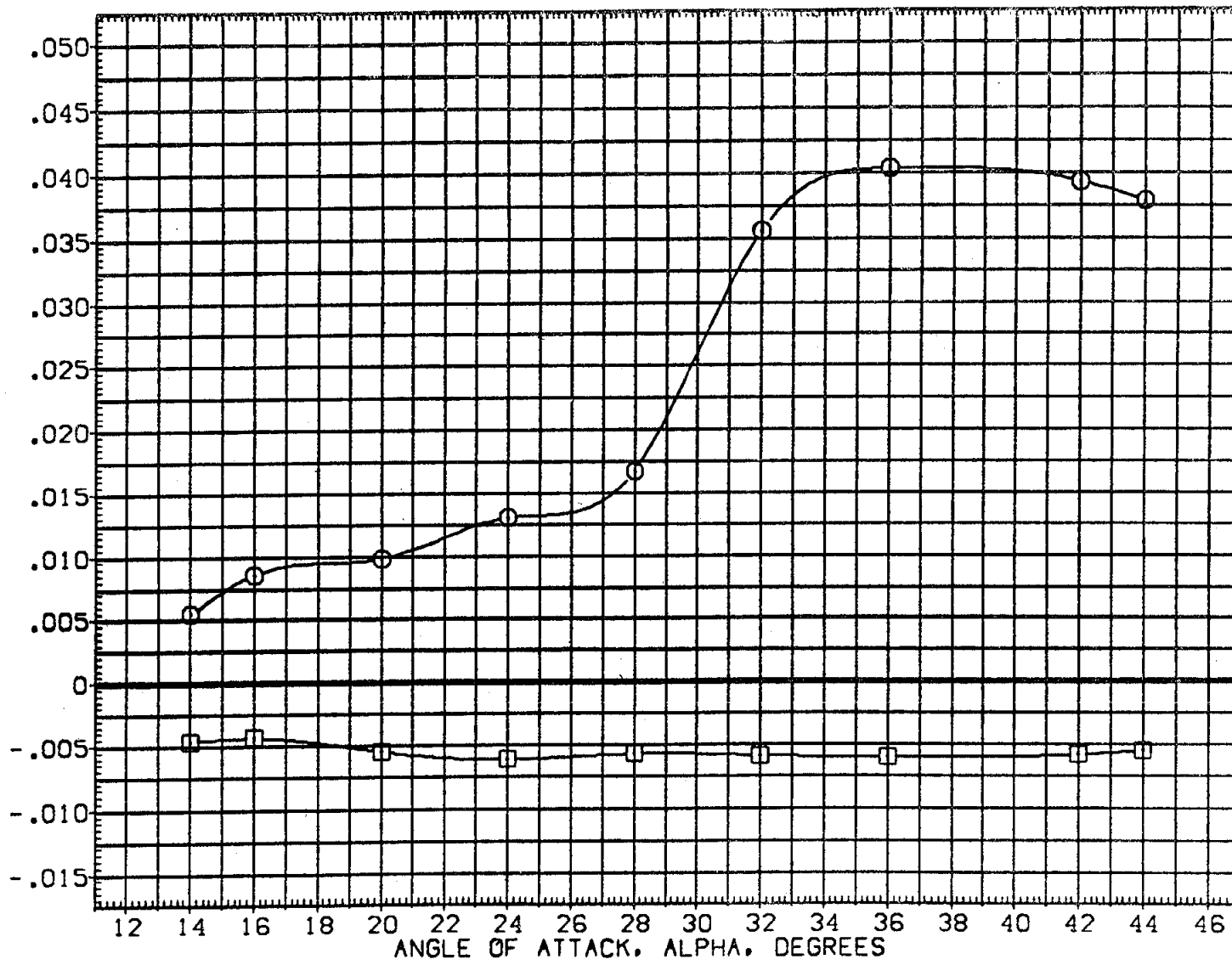


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21) ○	B26 C9 M7 F7 V116 V8 E26 R5
(GEPO08) □	B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL NORMAL FORCE COEFFICIENT • DCN

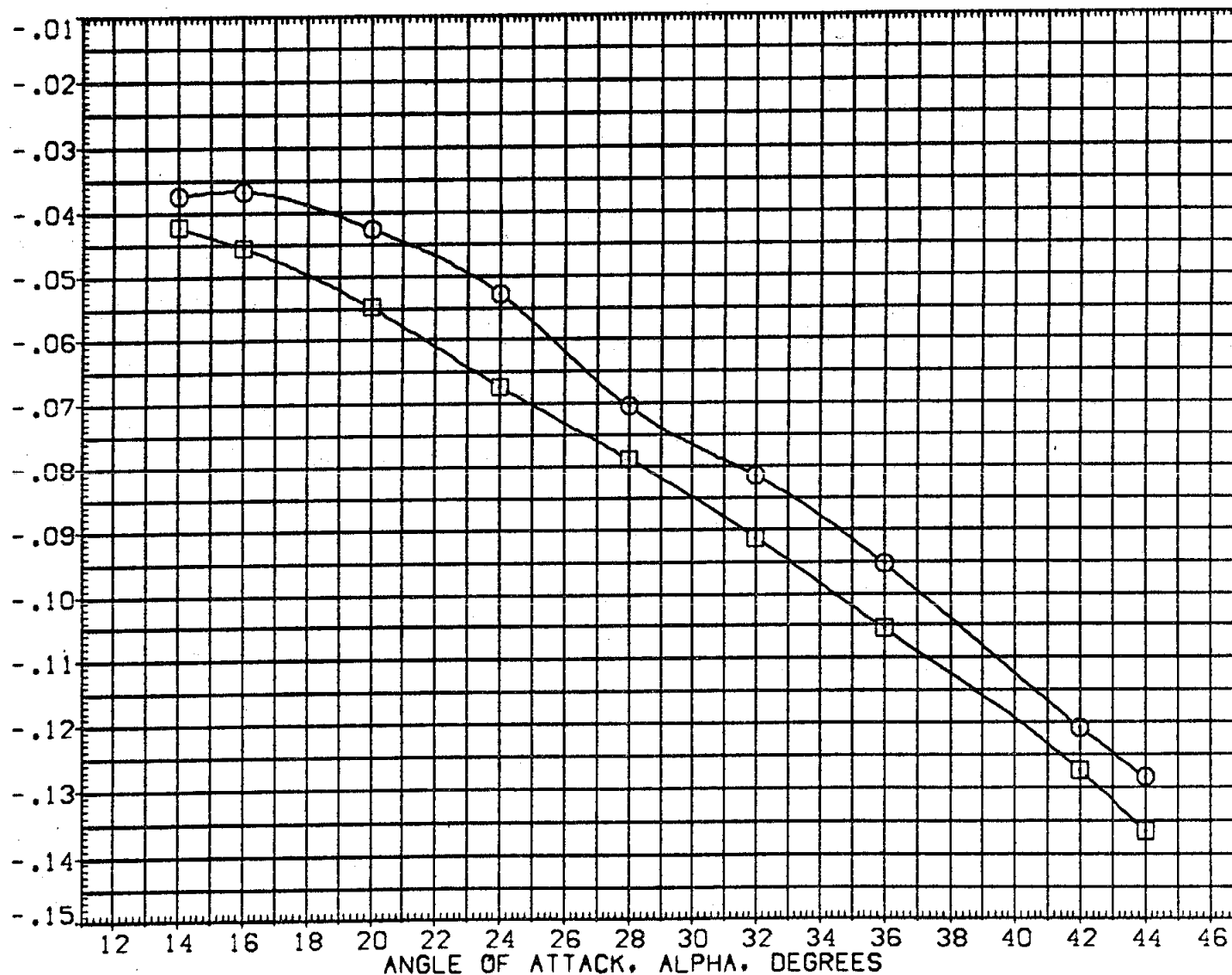


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21)	○ B26 C9 M7 F7 V116 V8 E26 R5
(GEPO08)	□ B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRF	1076.7000 IN.
				YMRF	.0000 IN.
				ZMRF	375.0000 IN.
				SCALE	.0150

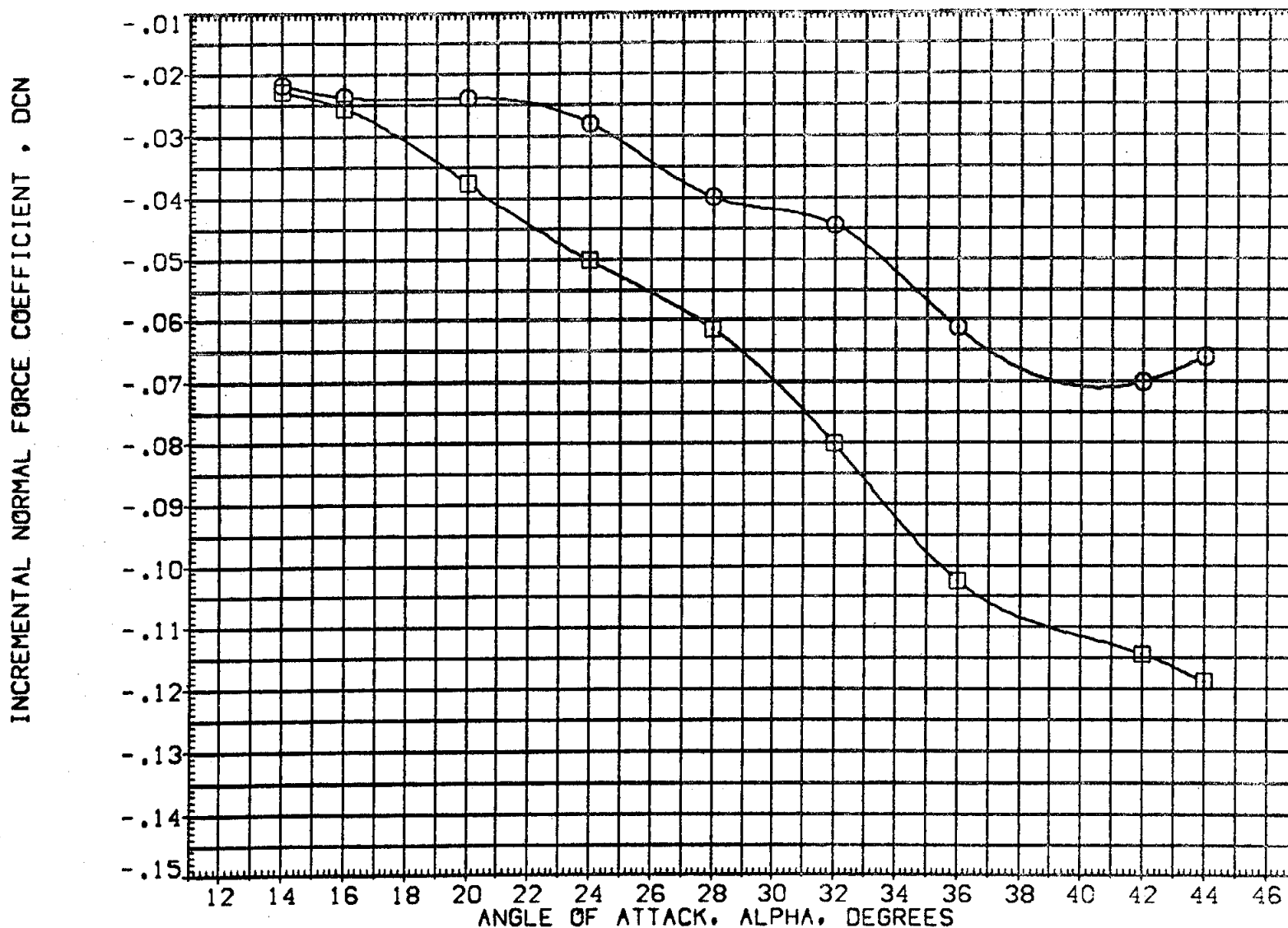


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEP021) ○	B26 C9 M7 F7 V116 V8 E26 R5
(GEP008) □	B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL PITCHING MOMENT COEF. ABOUT FWD CG . DCMFWD

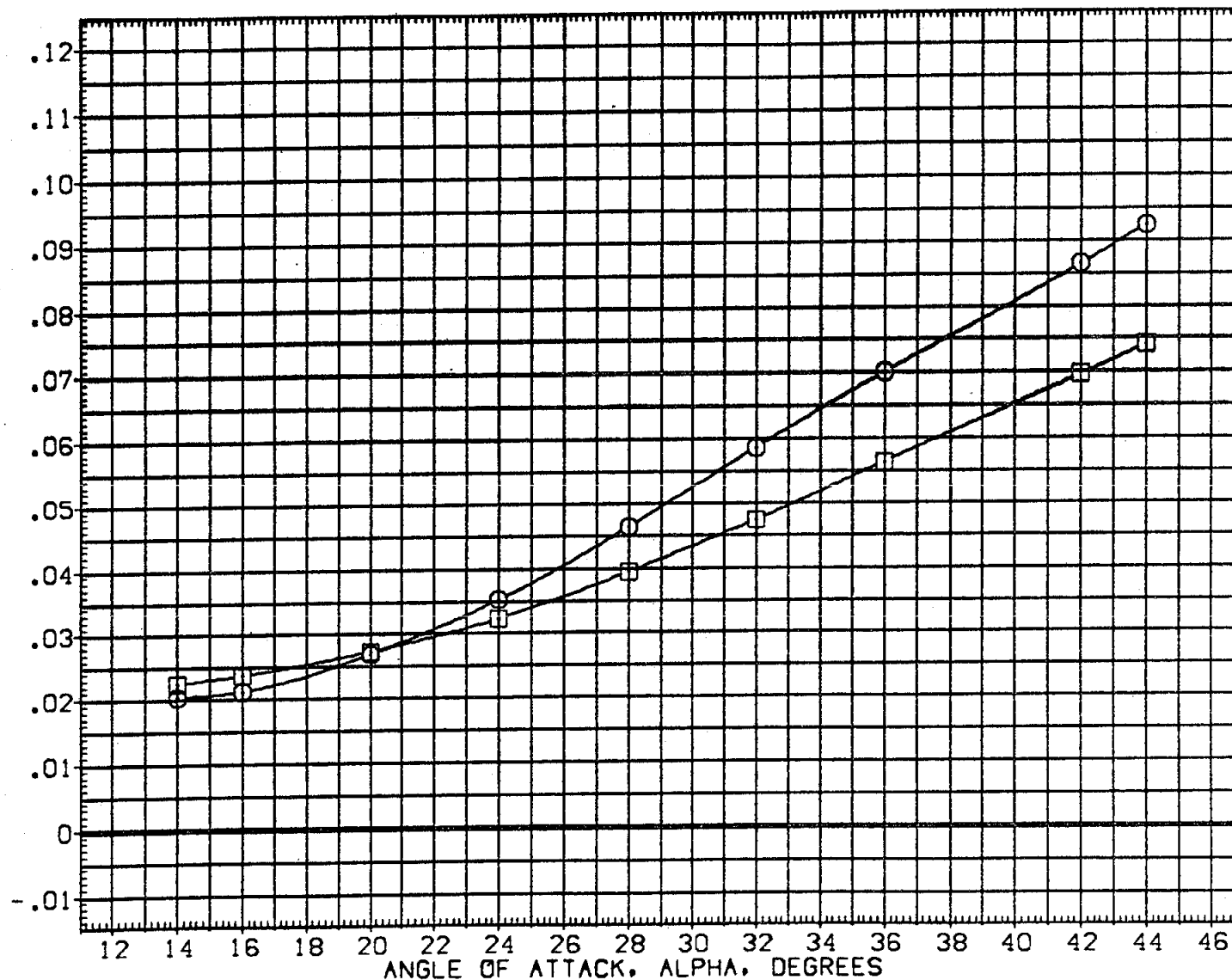


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEPO21) □ 826 C9 M7 F7 V116 V8 E26 R5
 (GEPO08) □ 826 C9 M7 F7 V116 V8 E37 R5

DELEVN AILRON DDFLAP SPOBRK
 -40.000 .000 -11.700 55.000
 -40.000 .000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.7000 IN.
 XMRP 1076.7000 IN.
 YMRP .0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT FWD CG . OCMFWD

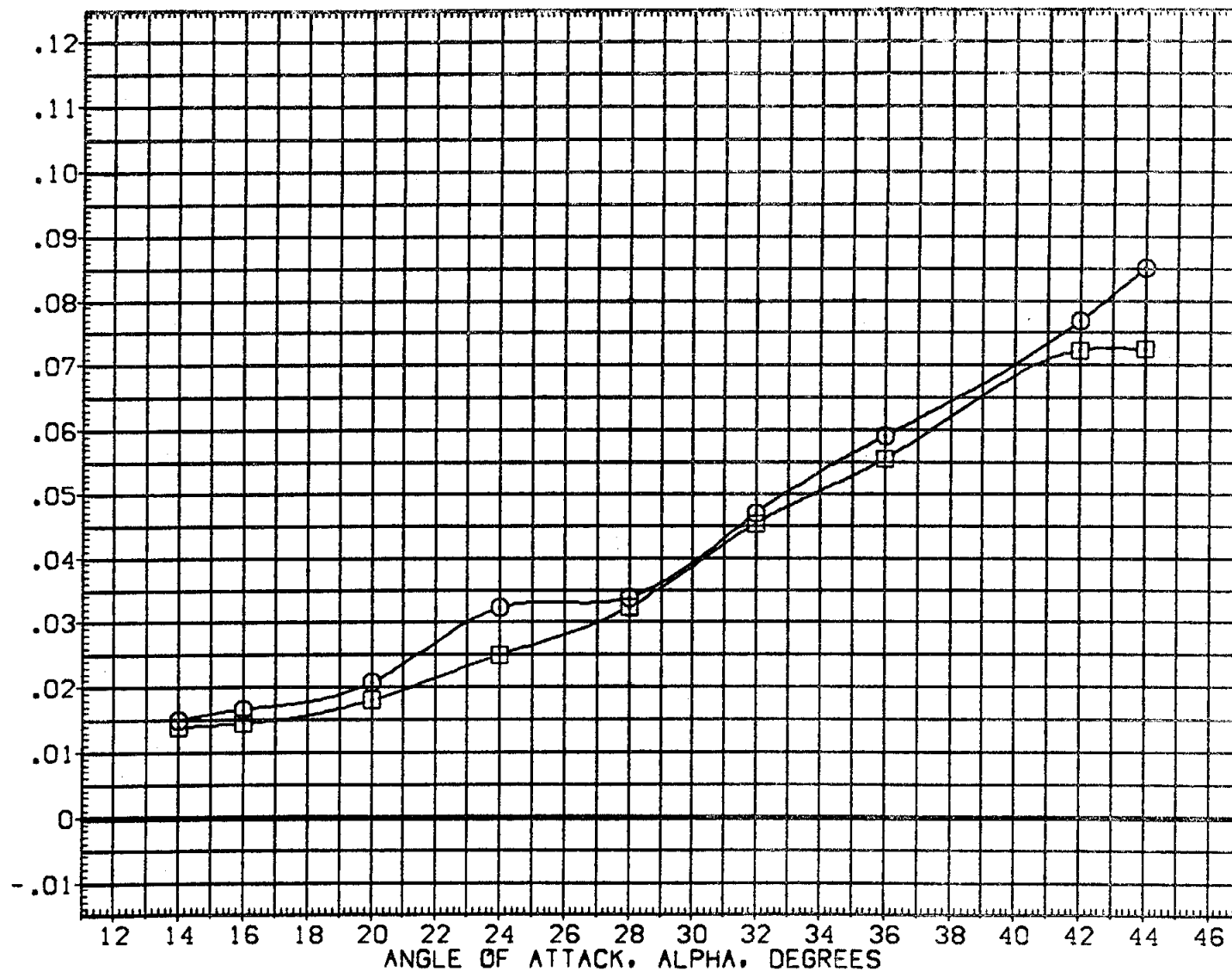


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO21) ○	B26 C9 M7 F7 W116 V8 E26 R5
(GEPO08) □	B26 C9 M7 F7 W116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL PITCHING MOMENT COEF. ABOUT AFT CG. DCMAFT

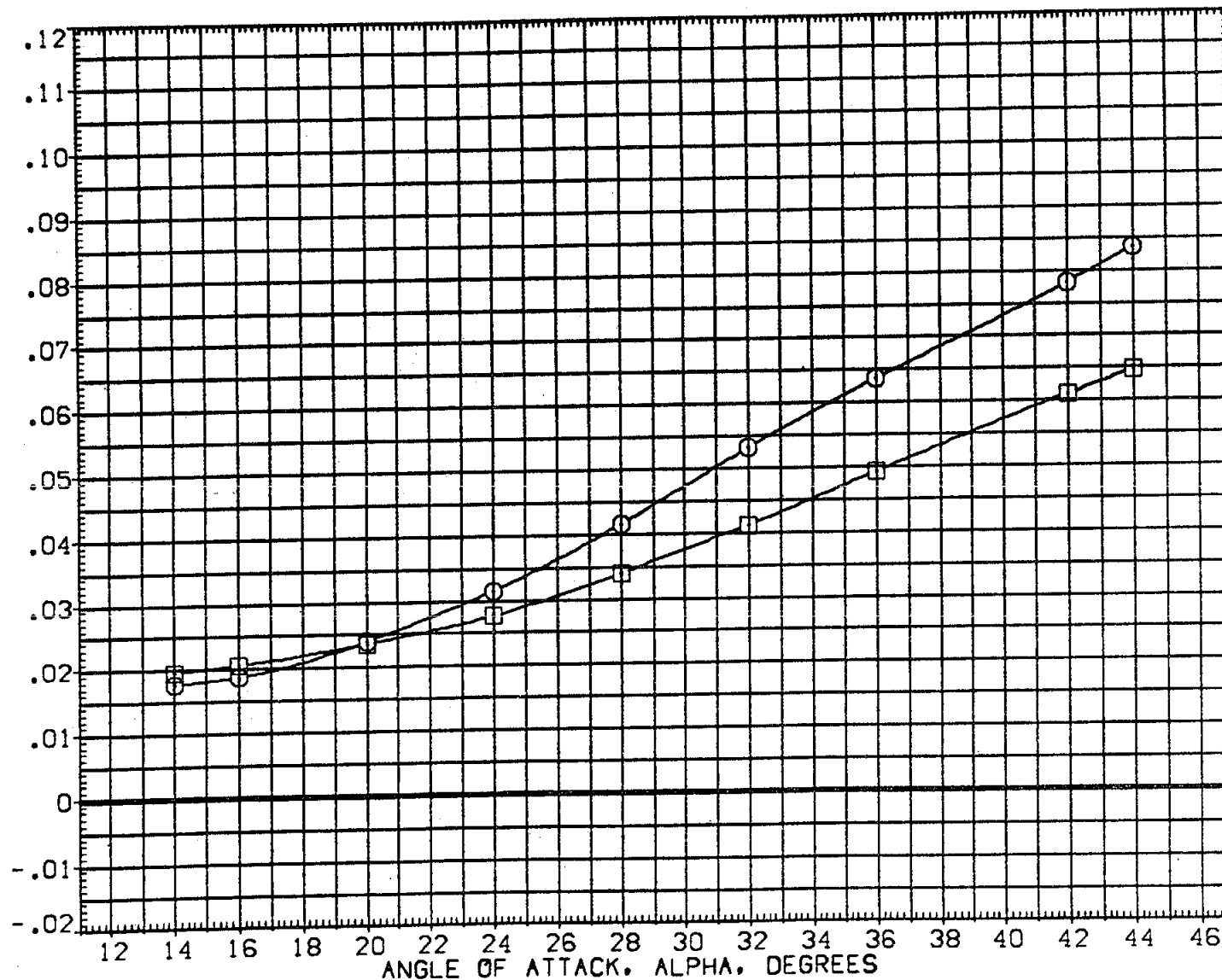


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEP021)	○ B26 C9 M7 F7 V116 V8 E26 R5
(GEP008)	□ B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	55.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT AFT CG • DCMAFT

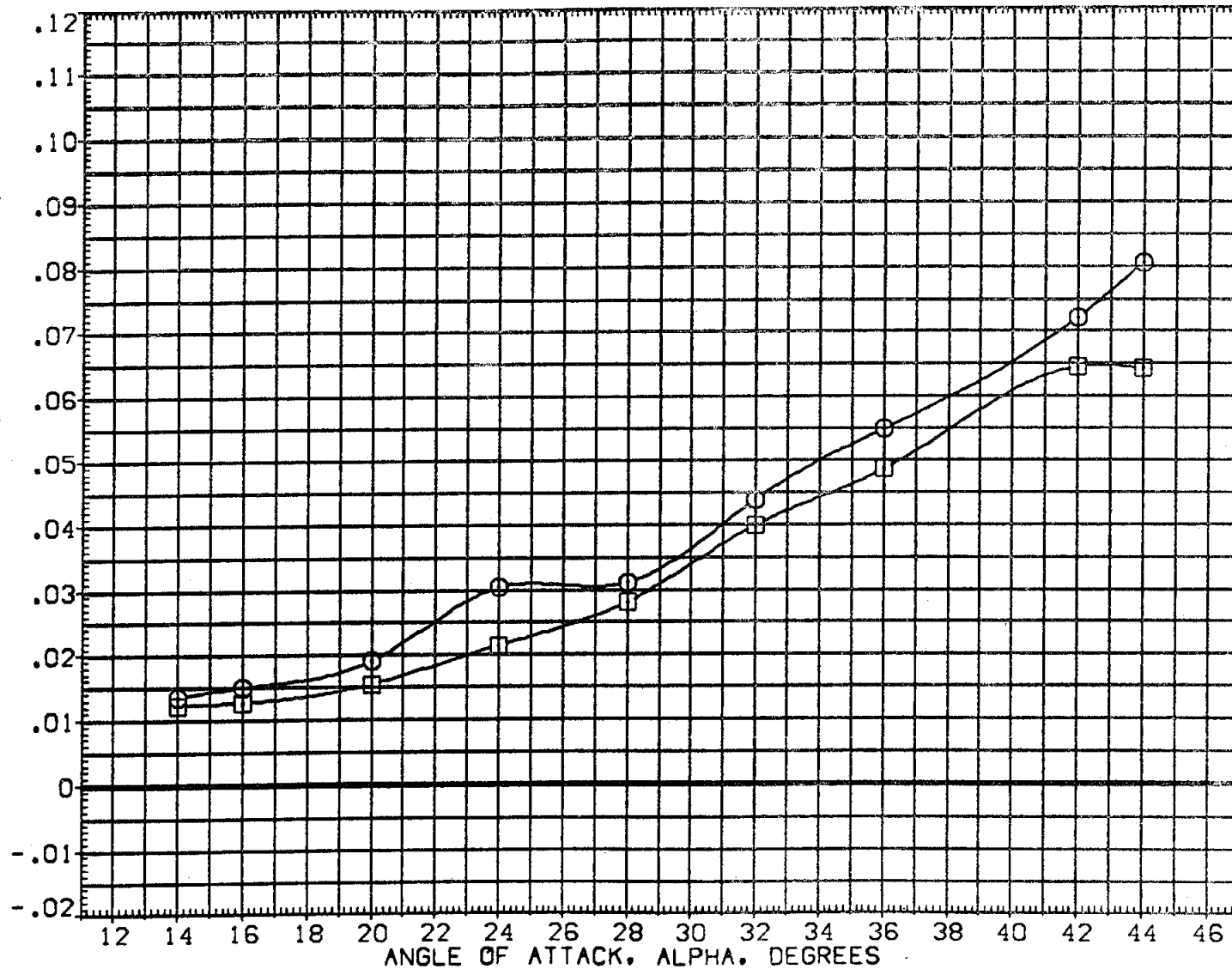


FIG. 4 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	826 C9 M7 F7 V116 V8 E37 R5
(DEP007)	826 C9 M7 F7 V116 V8 E37 R5
(DEP014)	826 C9 M7 F7 V116 V8 E37 R5
(DEP013)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDRBK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	50.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

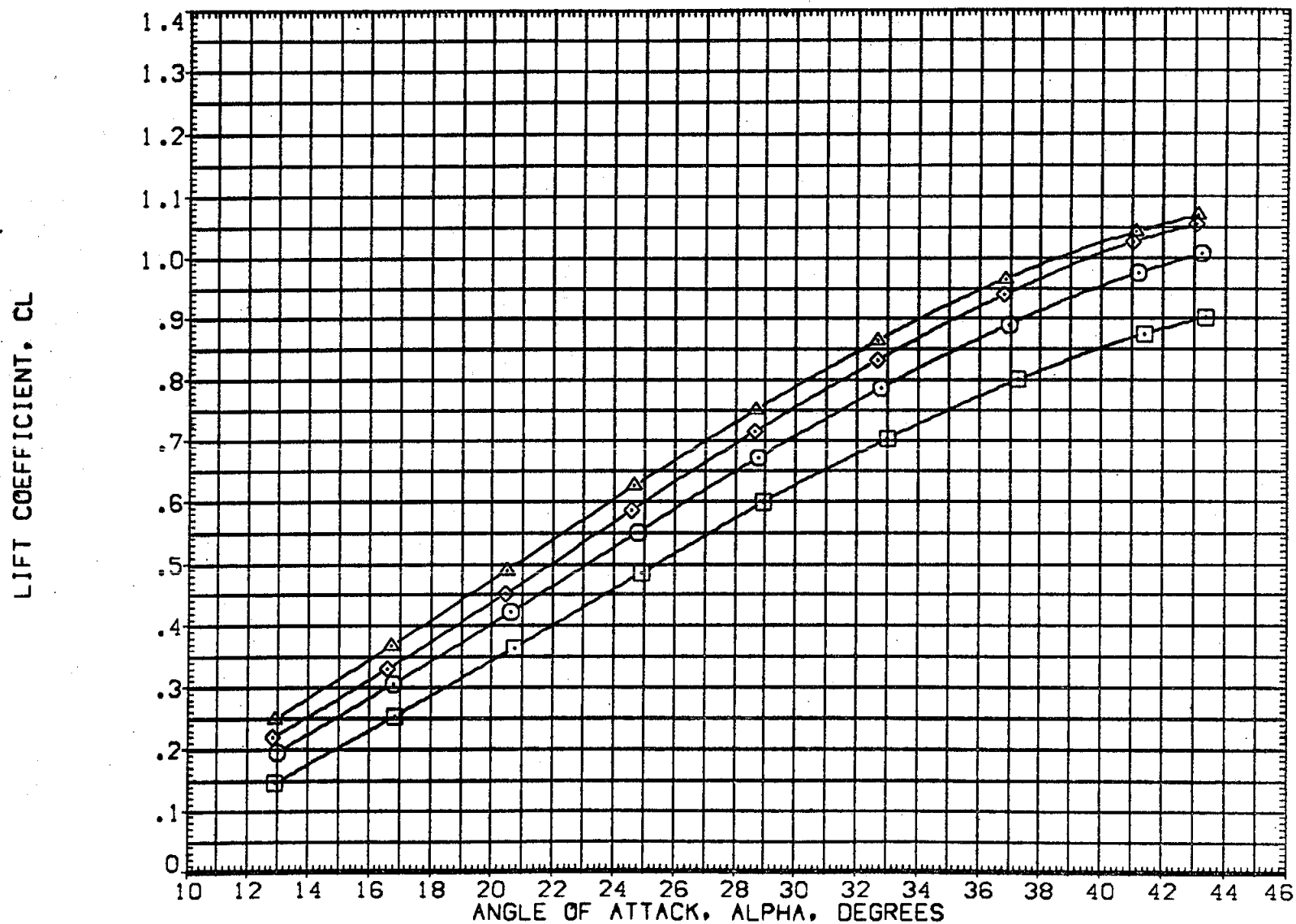


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO11)	826 C9 M7 F7 W116 V8 E37 R5
(DEPO07)	826 C9 M7 F7 W116 V8 E37 R5
(DEPO14)	DATA NOT AVAILABLE
(DEPO13)	826 C9 M7 F7 W116 V8 E37 R5

ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000 IN.
.000	.000	16.300	55.000	BREF	936.7000 IN.
15.000	.000	16.300	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

LIFT COEFFICIENT, C_L

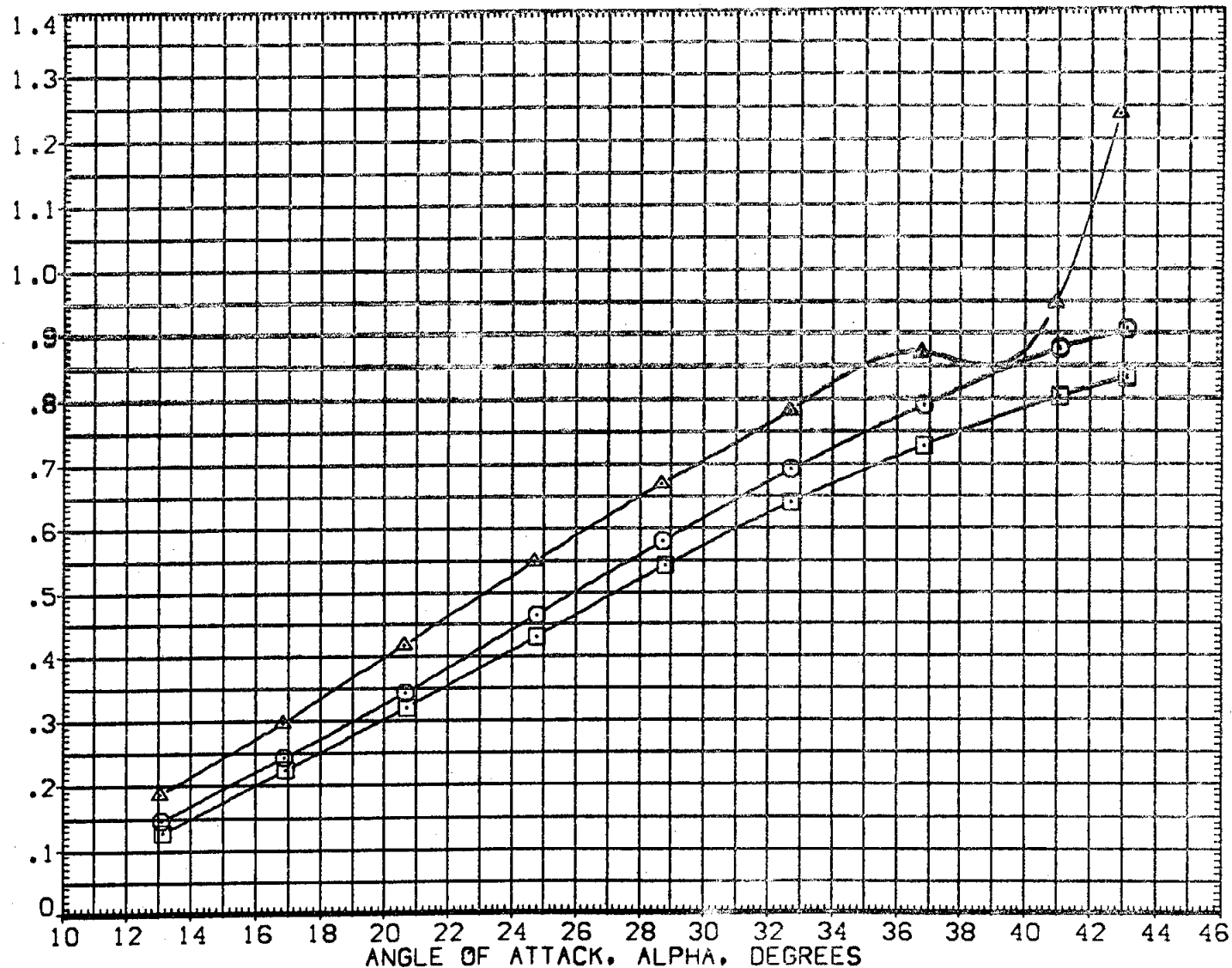


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	○ B26 C9 M7 F7 V116 V8 E37 R6
(DEP007)	□ B26 C9 M7 F7 V116 V8 E37 R3
(DEP014)	◇ B26 C9 M7 F7 V116 V8 E37 R5
(DEP013)	△ B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BDFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	65.000	SREF	2690.0000	50.FT.
-40.000	.000	-11.700	65.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

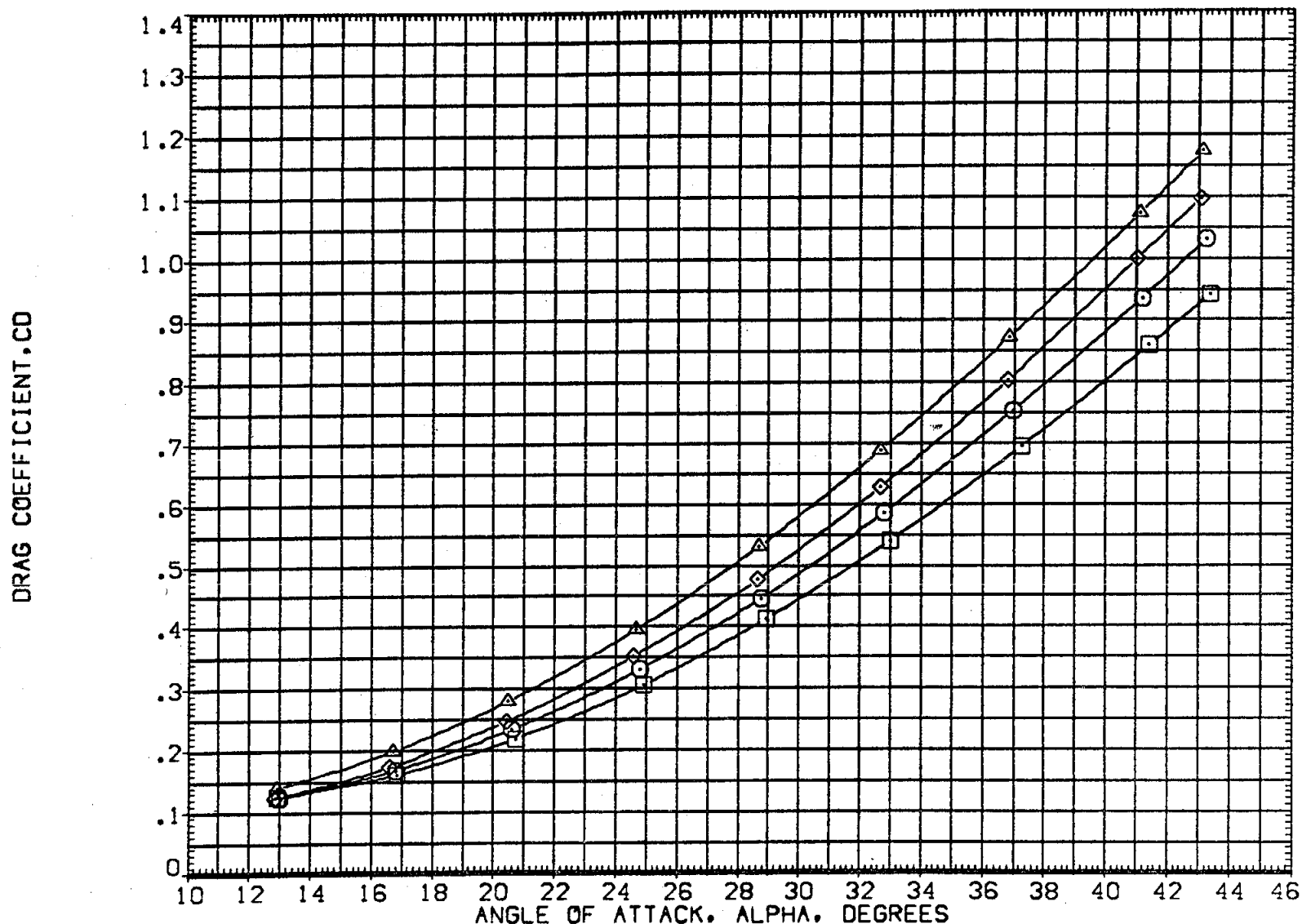


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A) MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP007)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE
(DEP013)	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	SOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000 IN.
.000	.000	16.300	55.000	BREF	936.7000 IN.
15.000	.000	16.300	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

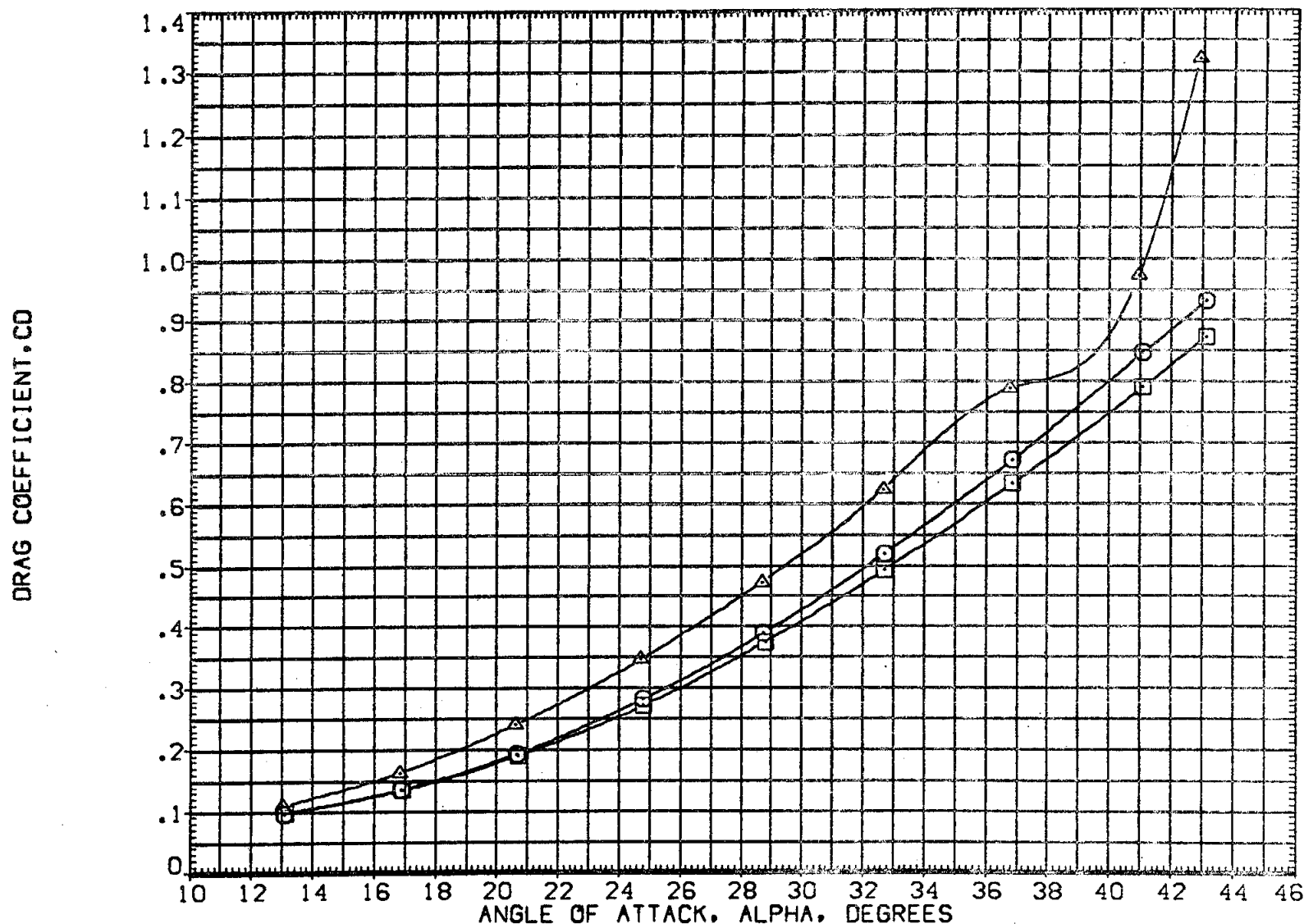


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO11)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO07)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO14)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO13)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	50.FT.
-10.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY DRAG COEFFICIENT, CDF

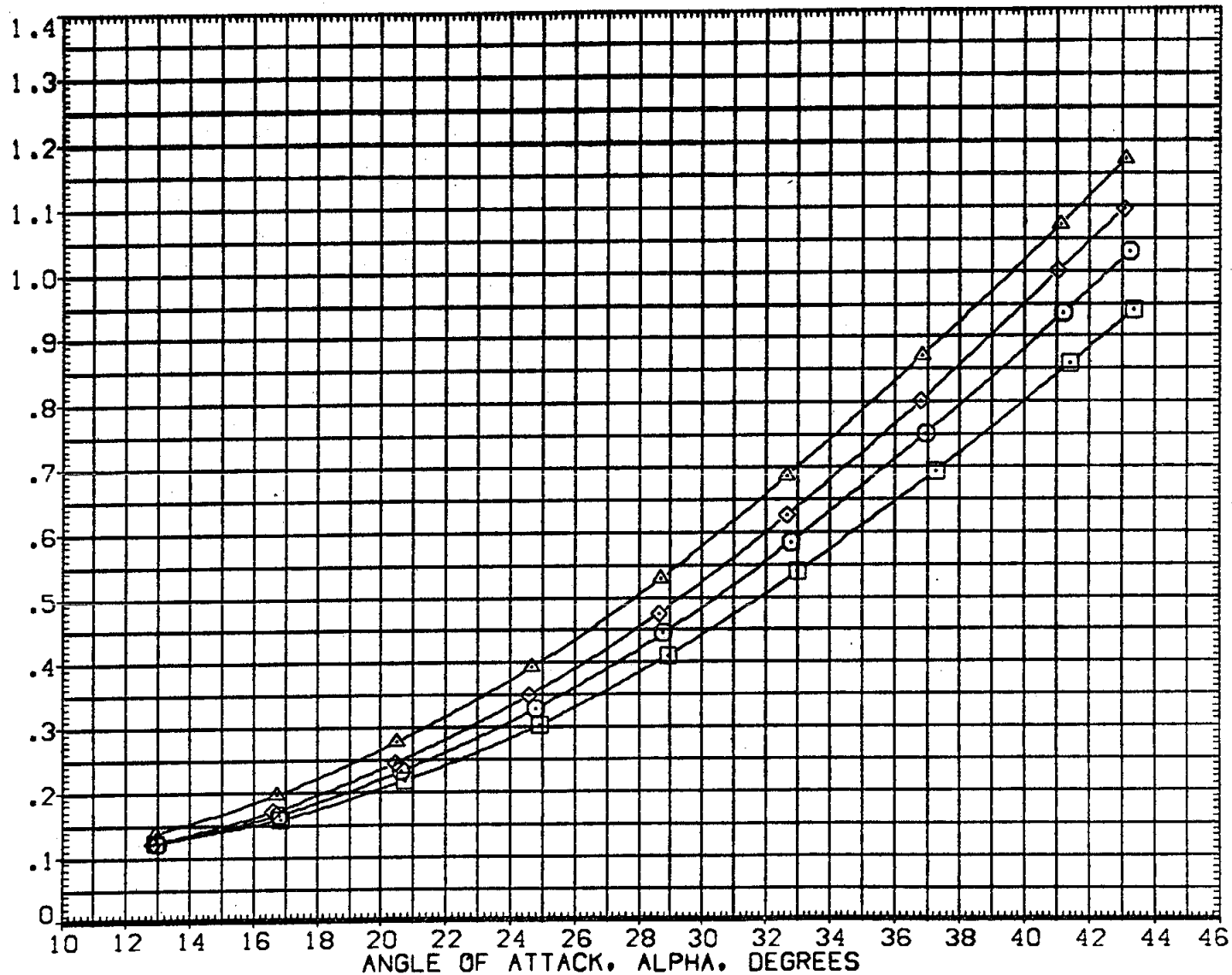


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO11)	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO07)	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO14)	DATA NOT AVAILABLE
(DEPO13)	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BDFLAP	SPDBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY DRAG COEFFICIENT, CDF

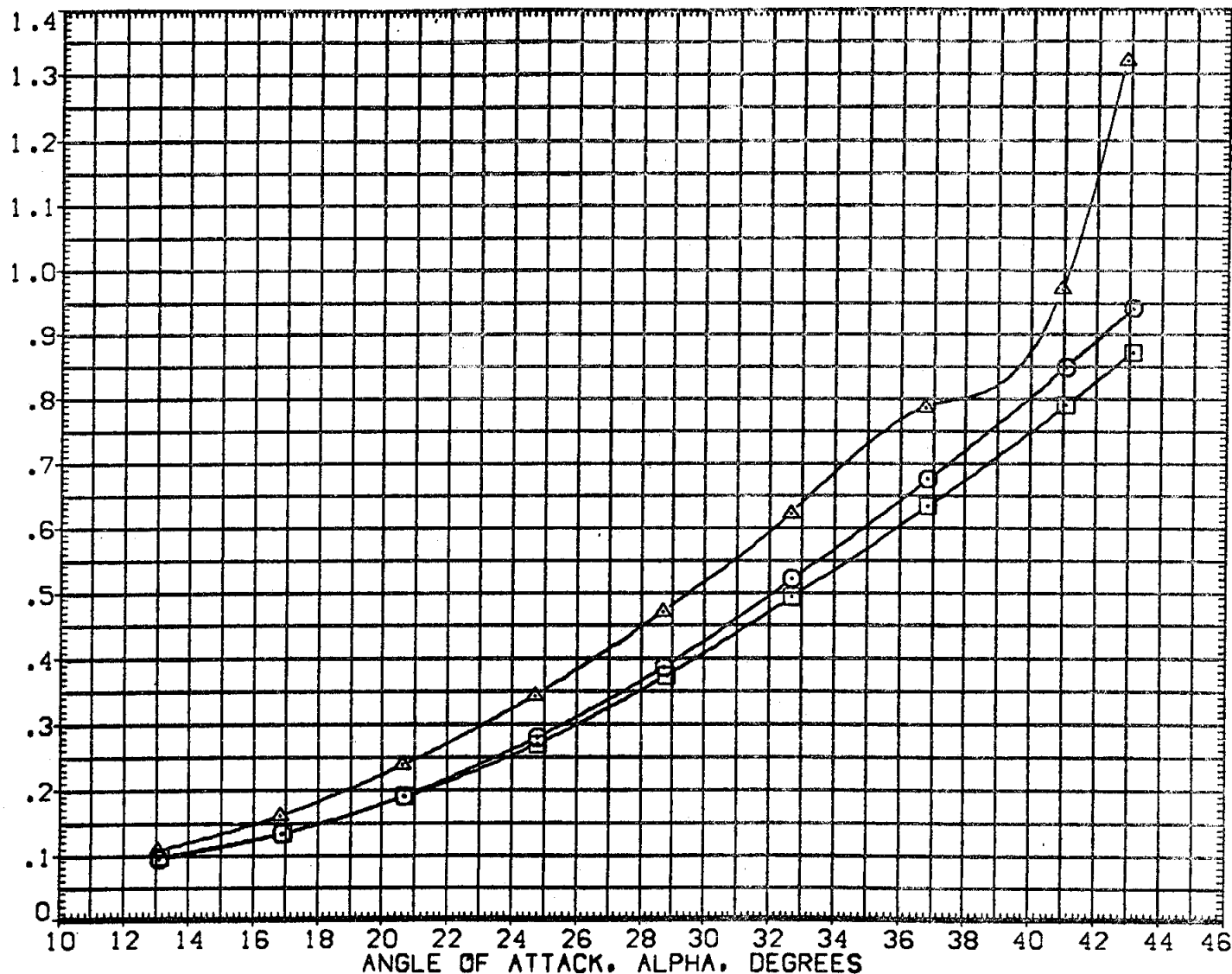


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.
(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
DEP011	B26 C9 M7 F7 V116 V8 E37 R5
DEP007	B26 C9 M7 F7 V116 V8 E37 R3
DEP014	B26 C9 M7 F7 V116 V8 E37 R5
DEP013	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	50.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

AXIAL FORCE COEFFICIENT, CA

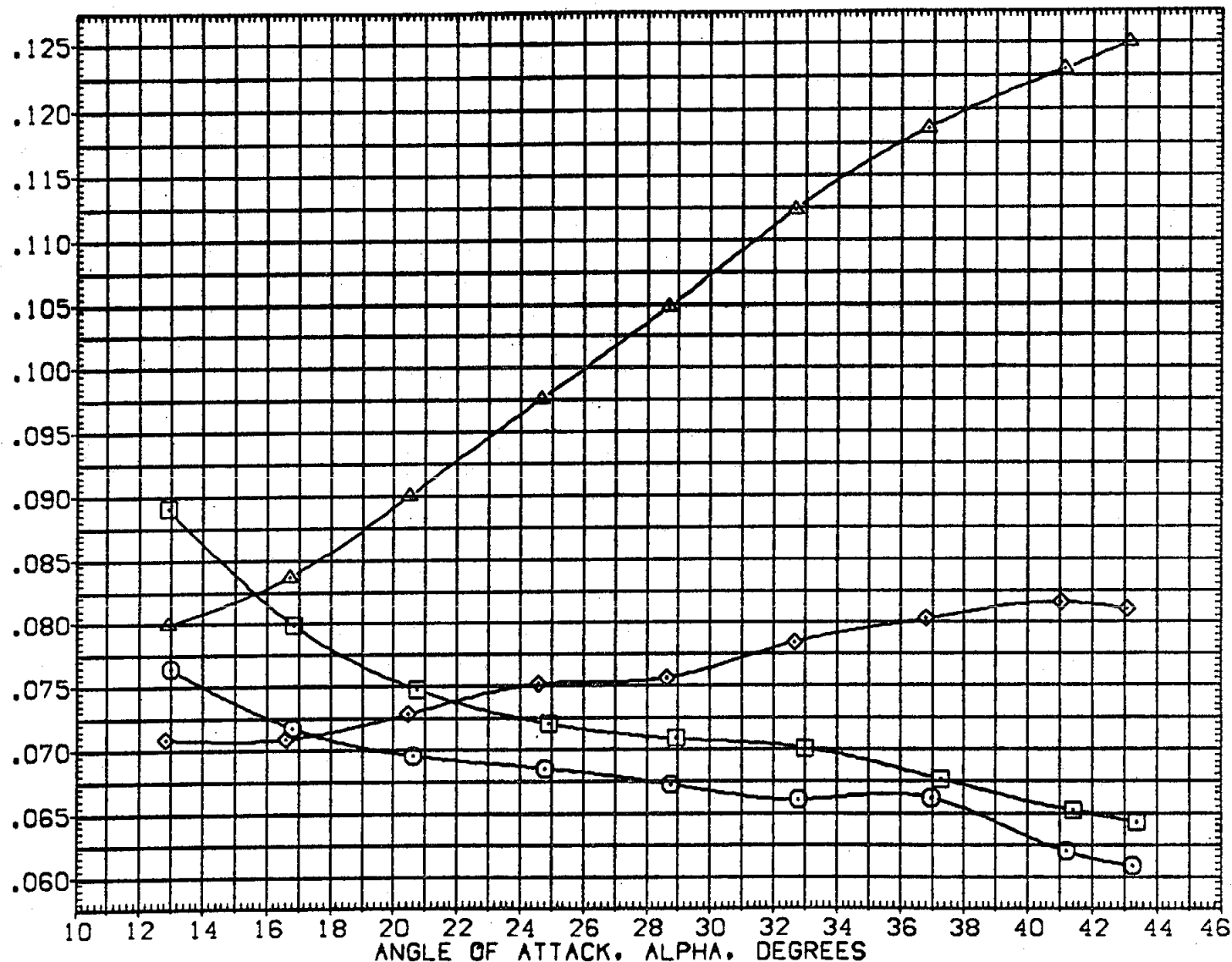


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	826 C9 M7 F7 V116 V8 E37 R5
(DEP007)	826 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE
(DEP013)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDRBK	REFERENCE INFORMATION	
.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
-10.000	.000	-11.700	85.000	LREF	474.8000 IN.
.000	.000	16.300	55.000	BREF	936.7000 IN.
15.000	.000	16.300	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

AXIAL FORCE COEFFICIENT, C_A

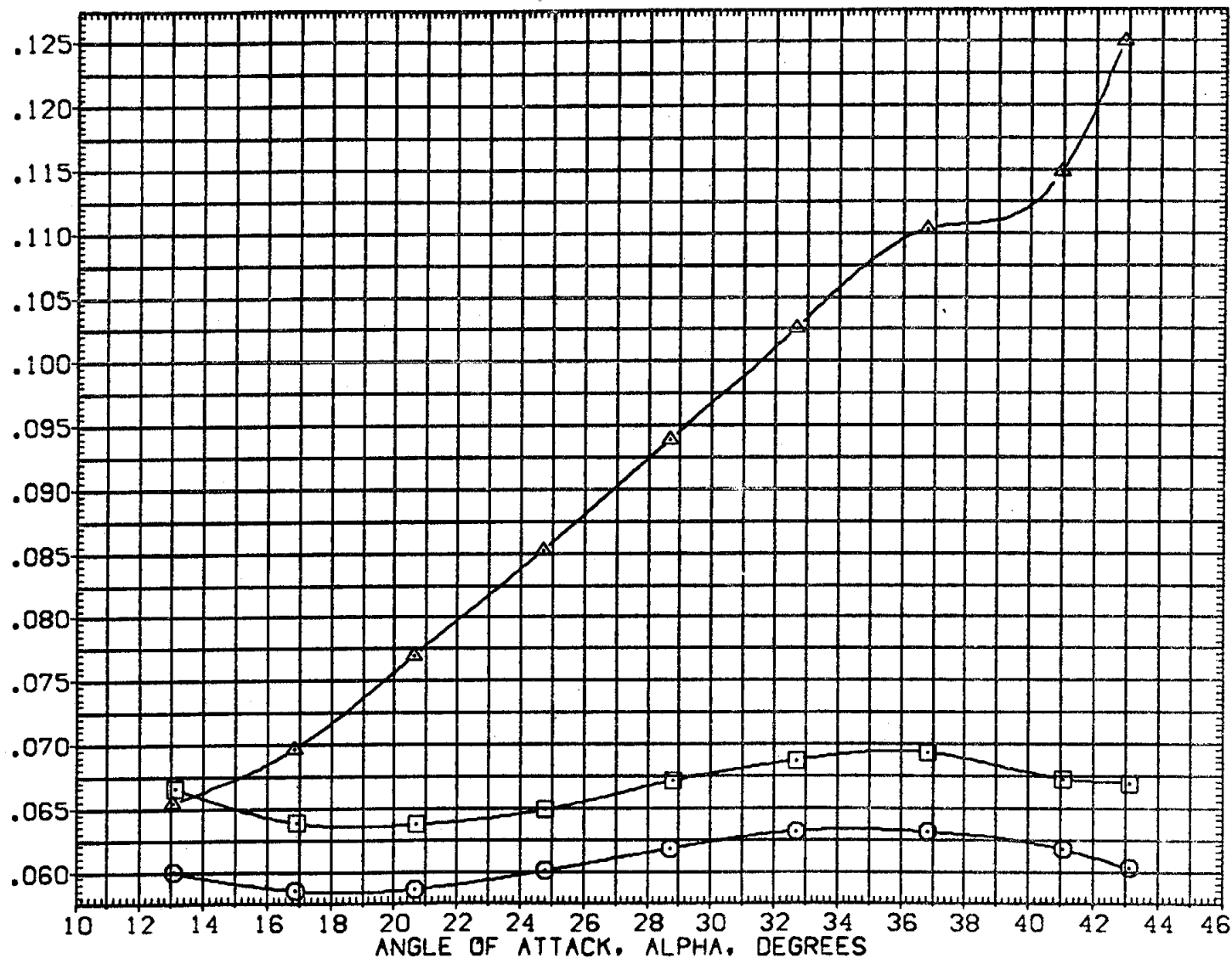


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEPO11)	○	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO07)	□	B26 C9 M7 F7 V116 V8 E37 R3
(DEPO14)	◇	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO13)	△	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

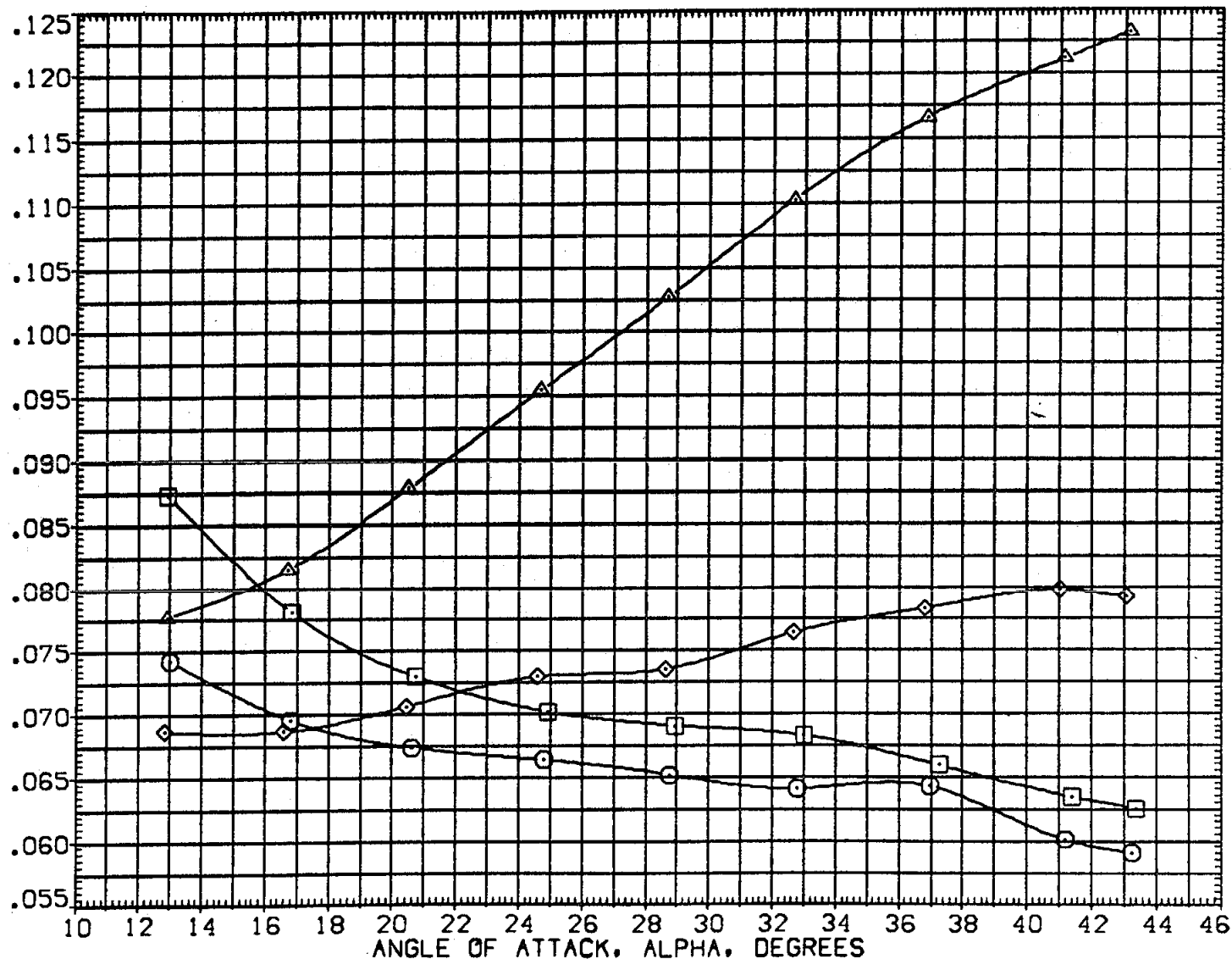


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	826 C9 M7 F7 V116 V8 E37 R5
(DEP007)	826 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE
(DEP013)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

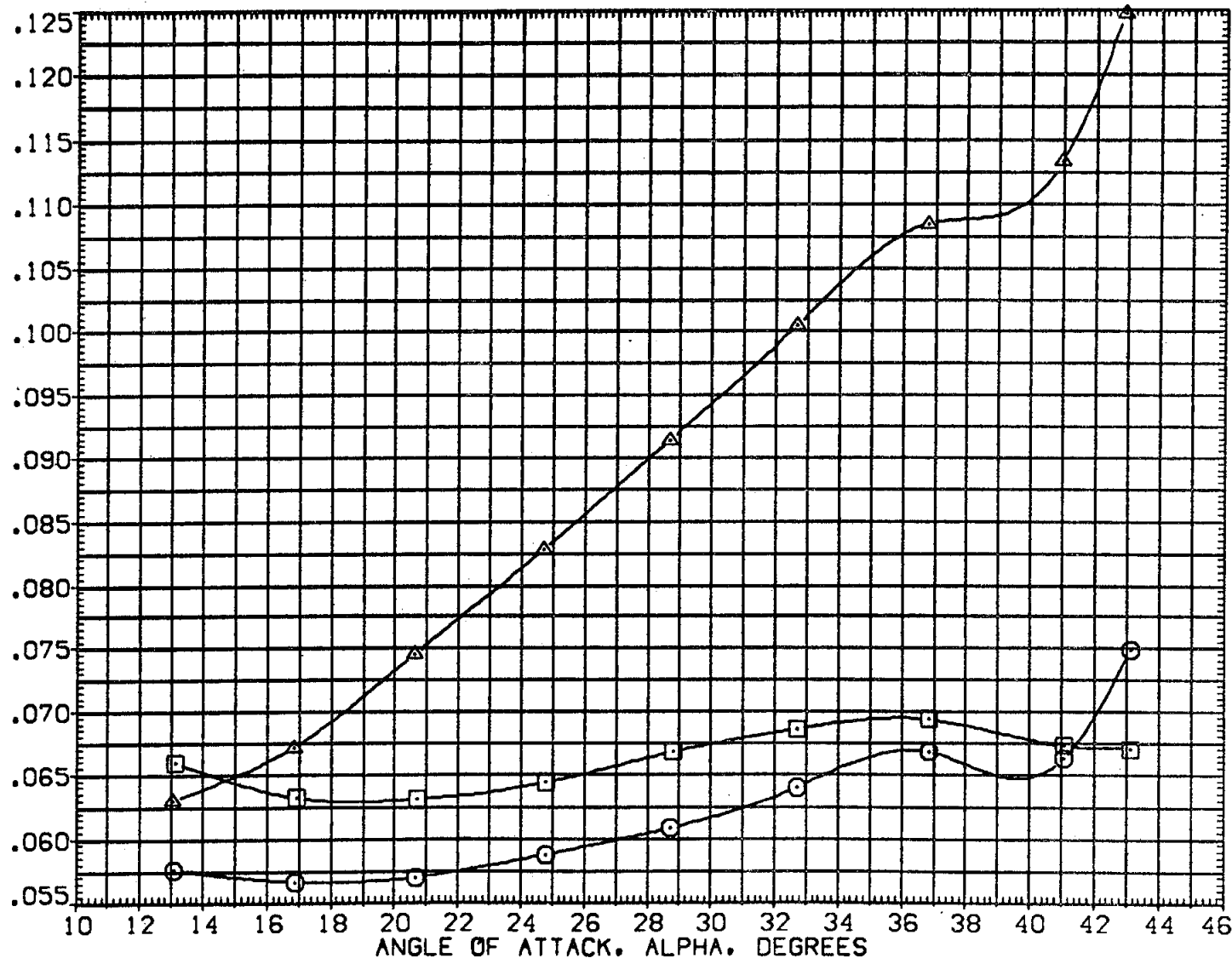


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO11)	826 CS M7 F7 V116 V8 E37 RS
(DEPO07)	826 CS M7 F7 V116 V8 E37 RS
(DEPO14)	826 CS M7 F7 V116 V8 E37 RS
(DEPO13)	826 CS M7 F7 V116 V8 E37 RS

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-11.700	85.000
-40.000	.000	-11.700	85.000
.000	.000	16.300	55.000
15.000	.000	16.300	55.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

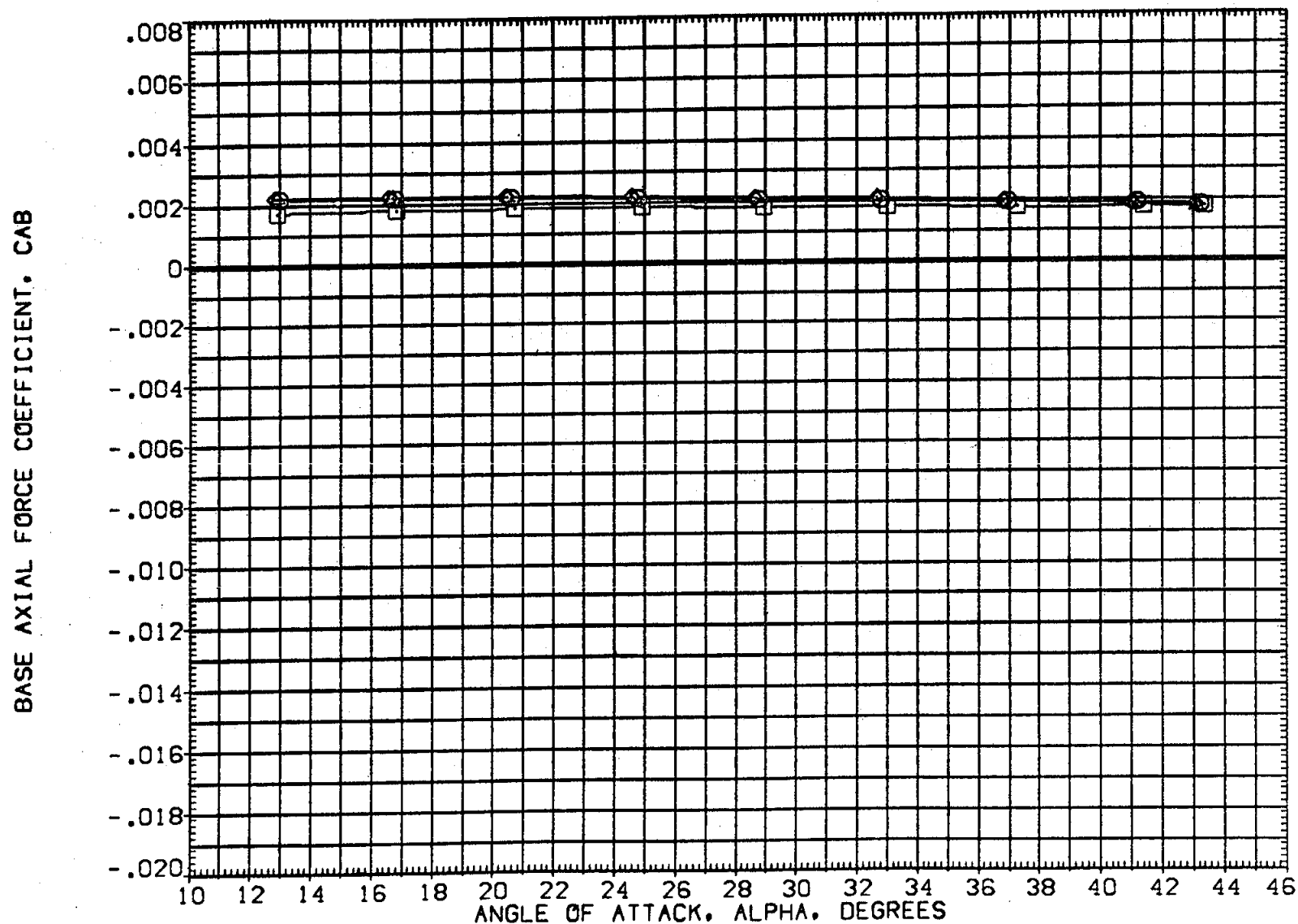


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO11)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO07)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO14)	DATA NOT AVAILABLE
(DEPO13)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000 IN.
.000	.000	16.300	55.000	BREF	936.7000 IN.
15.000	.000	16.300	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

BASE AXIAL FORCE COEFFICIENT, CAB

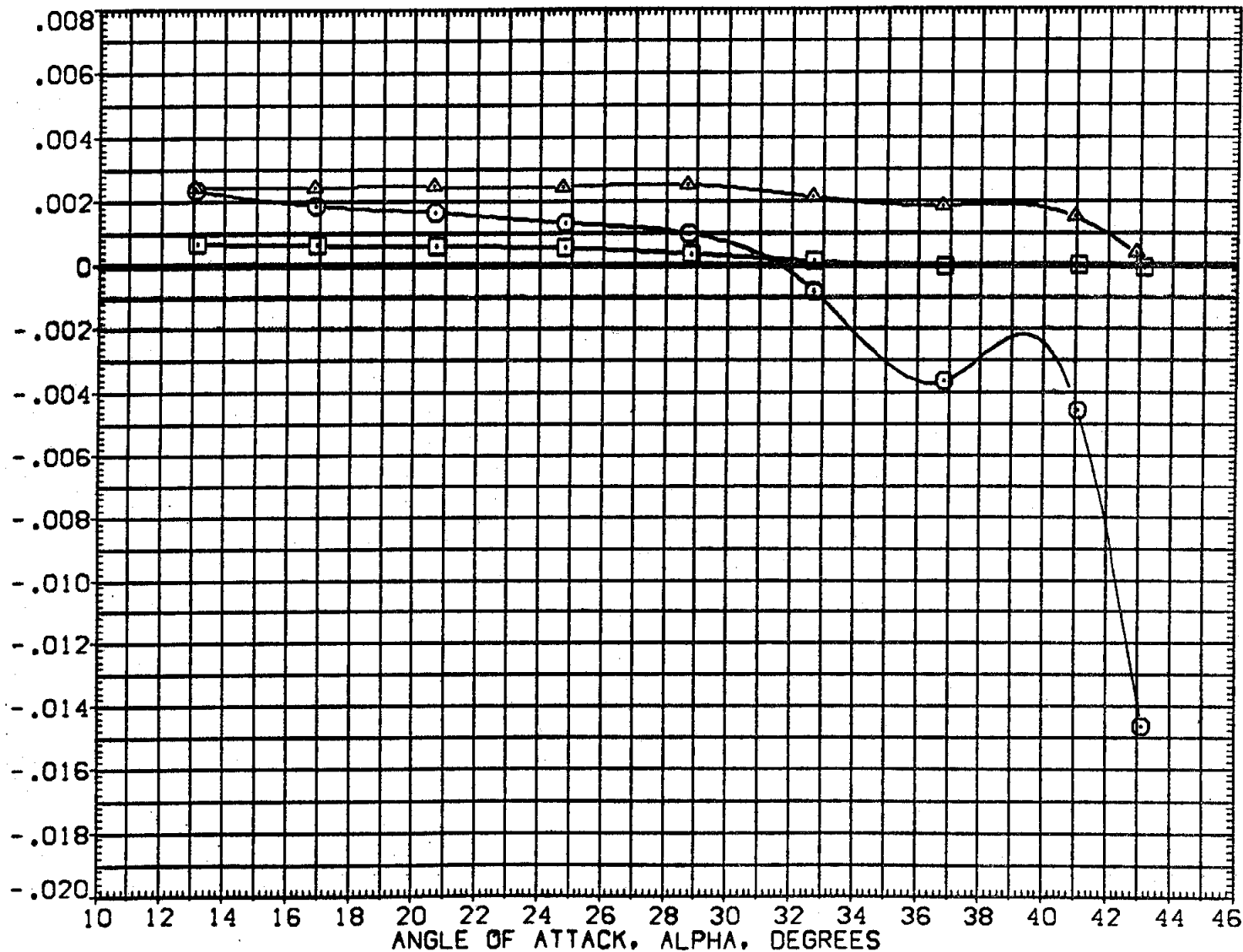


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	○	826 C9 M7 F7 V116 V8 E37 R5
(DEP007)	□	826 C9 M7 F7 V116 V8 E37 R5
(DEP014)	◇	826 C9 M7 F7 V116 V8 E37 R5
(DEP013)	△	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000 IN.
.000	.000	16.300	55.000	BREF	936.7000 IN.
15.000	.000	16.300	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

NORMAL FORCE COEFFICIENT, CN

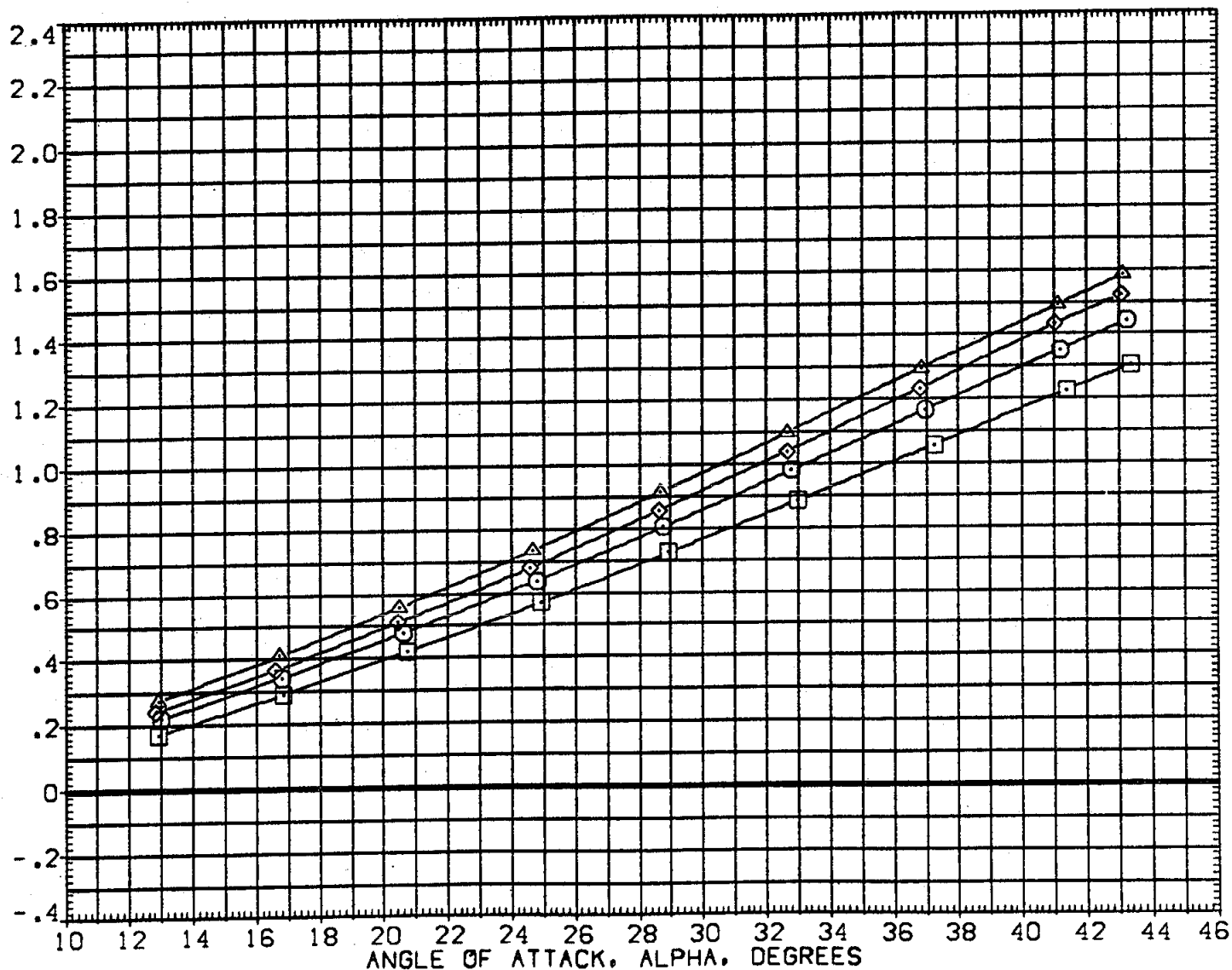


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A) MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP007)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE
(DEP013)	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

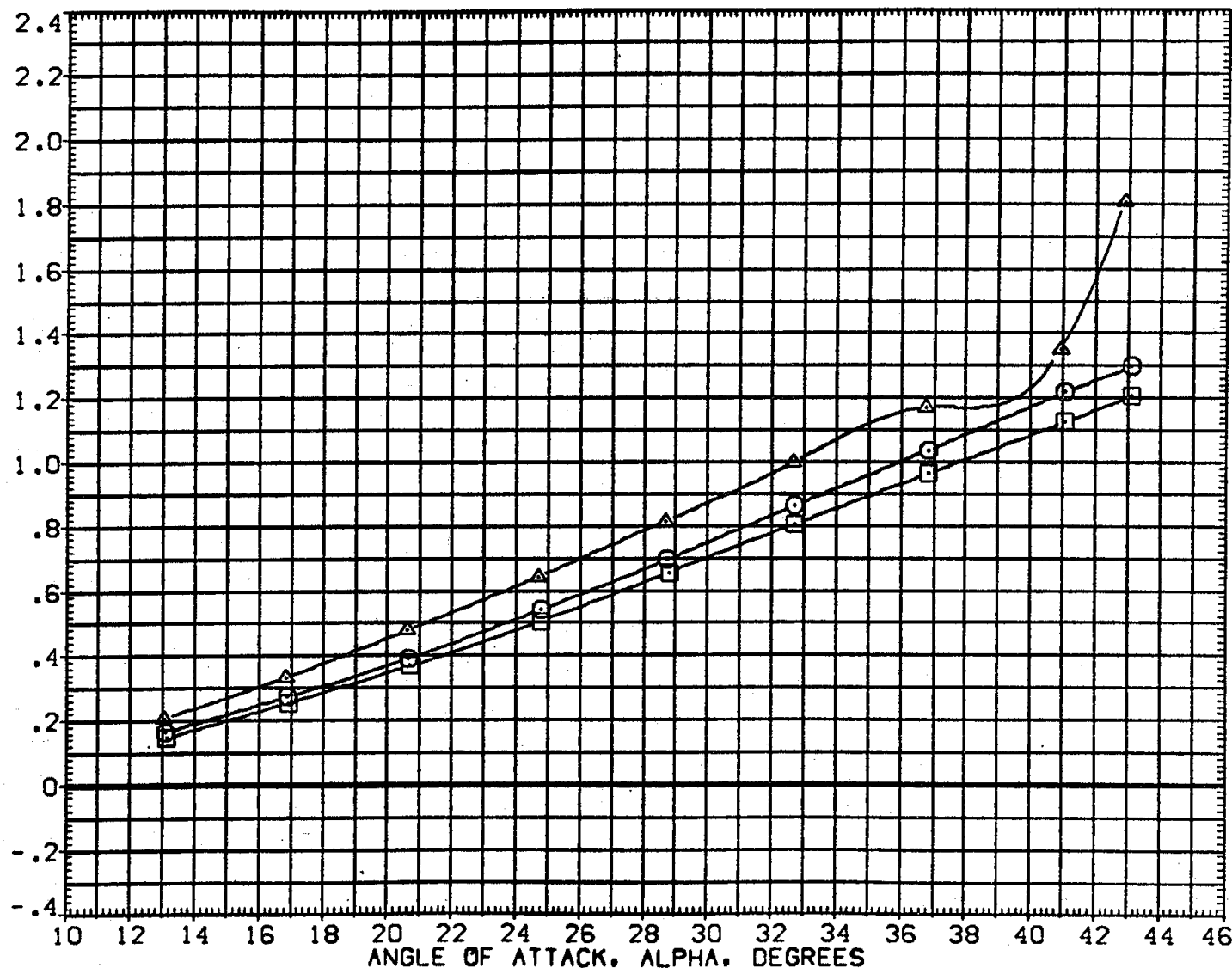


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.
(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP007)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP013)	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000 IN.
.000	.000	16.300	55.000	BREF	936.7000 IN.
15.000	.000	16.300	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

PITCHING MOMENT COEFFICIENT ABOUT FORWARD CG • CLMFWO

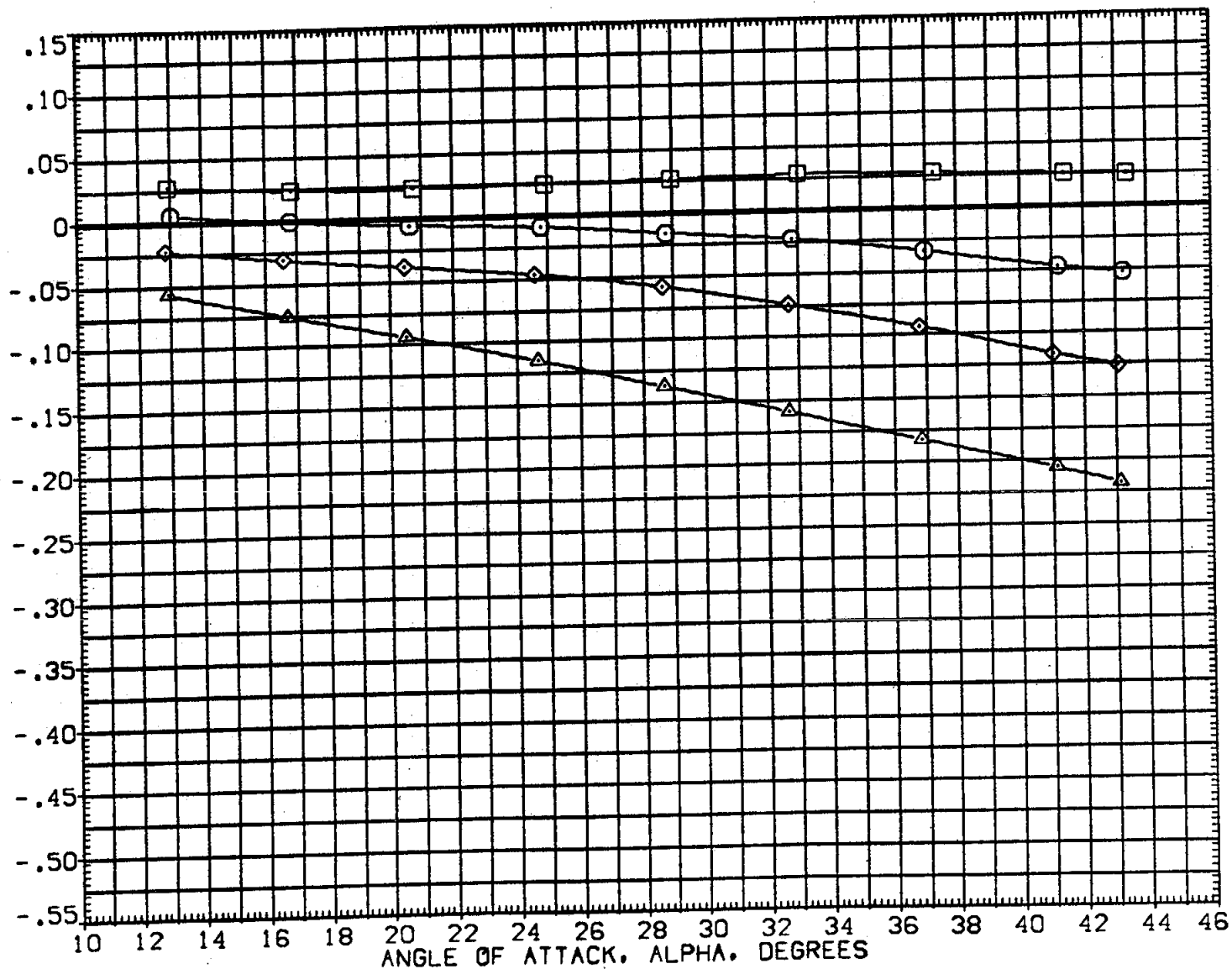


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.
(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO11)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO07)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO14)	DATA NOT AVAILABLE
(DEPO13)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
.000	.000	-11.700	85.000	SREF 2680.0000 SQ.FT.
-40.000	.000	-11.700	85.000	LREF 474.8000 IN.
.000	.000	16.300	55.000	BREF 936.7000 IN.
15.000	.000	16.300	55.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

PITCHING MOMENT COEFFICIENT ABOUT FORWARD CG • CLMFWD

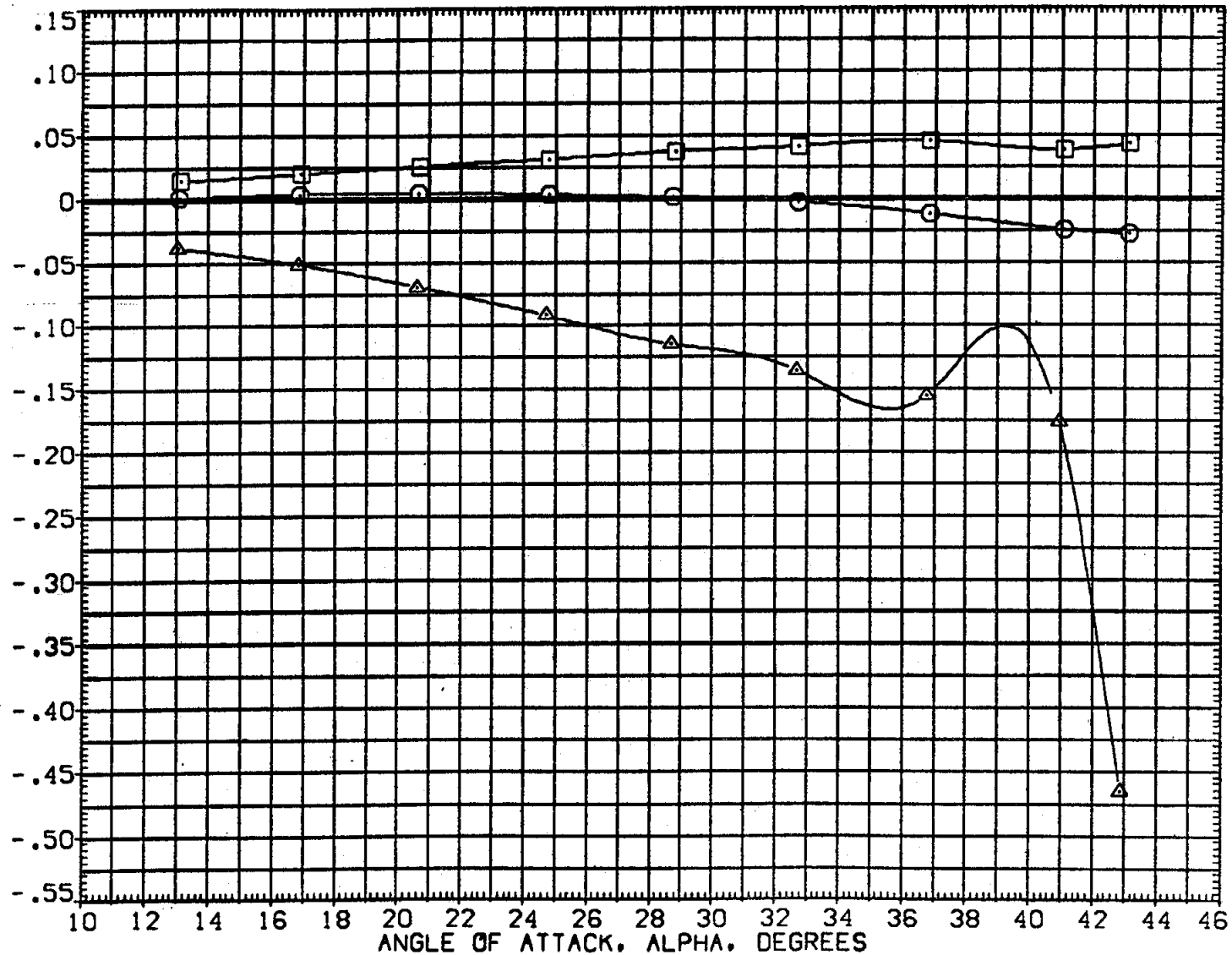


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP007)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP013)	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
.000	.000	-11.700	85.000	SREF 2690.0000 SQ.FT.
-40.000	.000	-11.700	85.000	LREF 474.8000 IN.
.000	.000	16.300	55.000	BREF 936.7000 IN.
15.000	.000	16.300	55.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

PITCHING MOMENT COEFFICIENT ABOUT AFT CG • CLMAFT

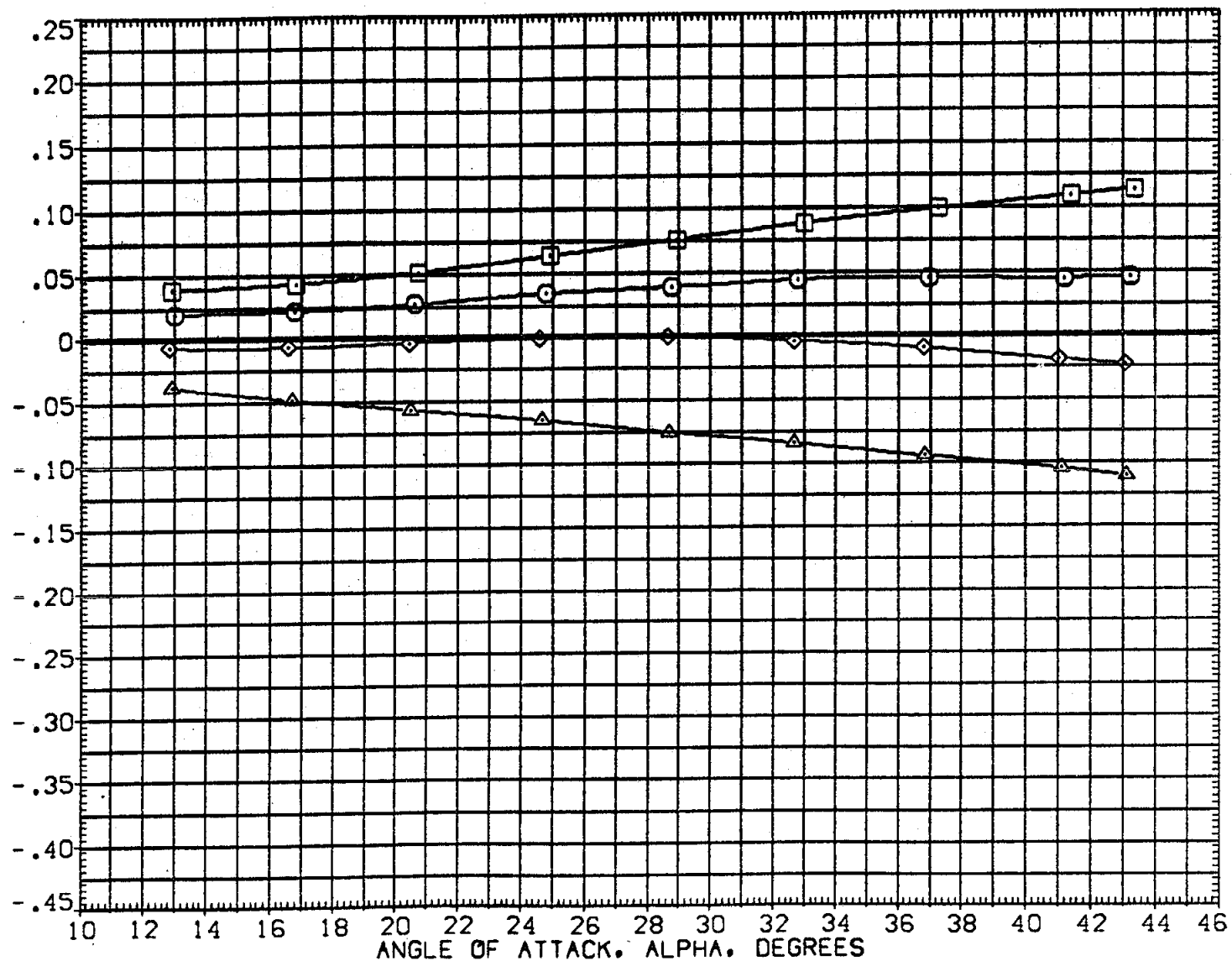


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[DEP011]	B26 C9 M7 F7 V116 V8 E37 R5
[DEP007]	B26 C9 M7 F7 V116 V8 E37 R5
[DEP014]	DATA NOT AVAILABLE
[DEP013]	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BDFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	50.FT.
-10.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

PITCHING MOMENT COEFFICIENT ABOUT AFT CG - CLMAFT

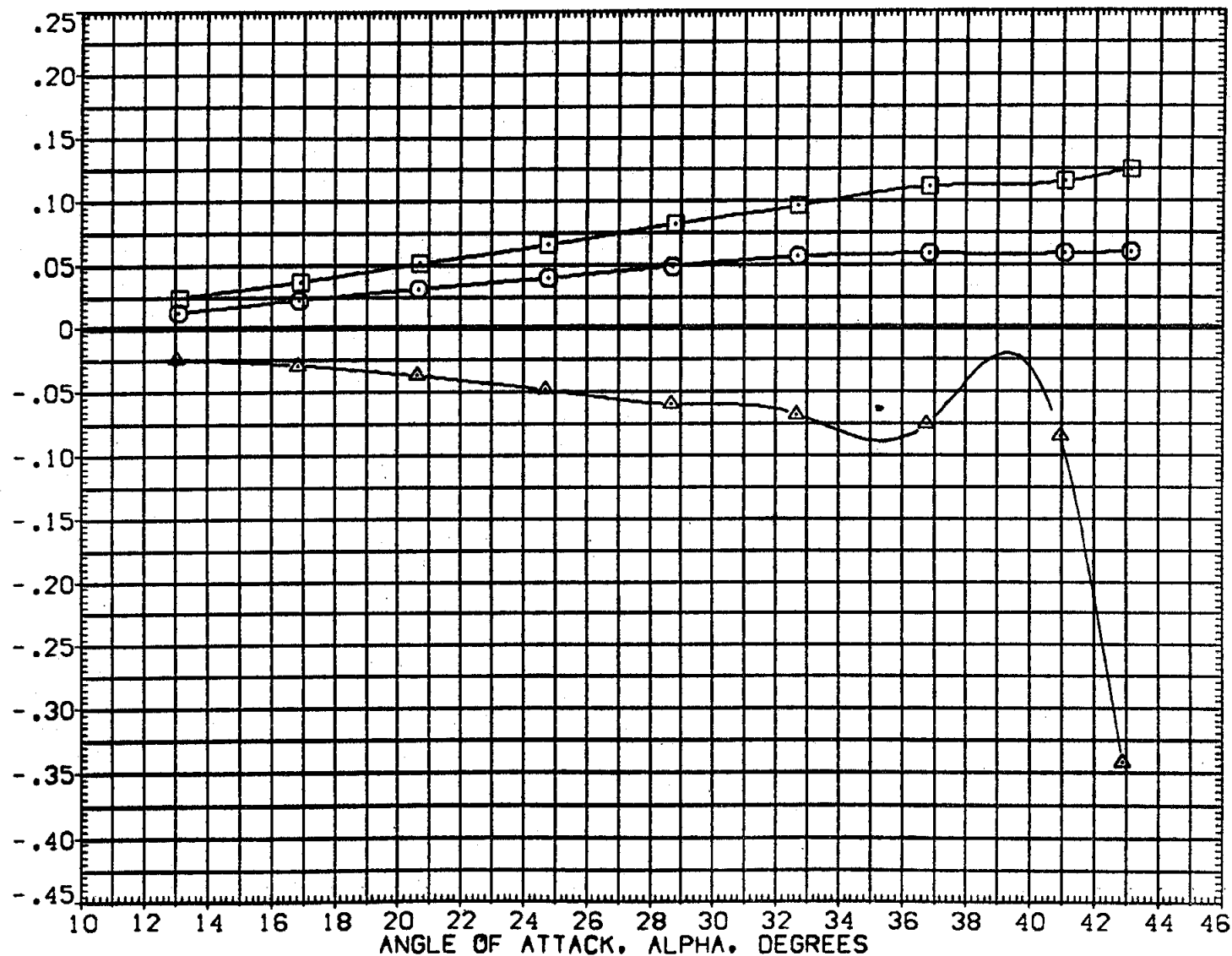


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	826 C9 M7 F7 V116 V8 E37 R5
(DEP007)	826 C9 M7 F7 V116 V8 E37 R5
(DEP014)	826 C9 M7 F7 V116 V8 E37 R5
(DEP013)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	50.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

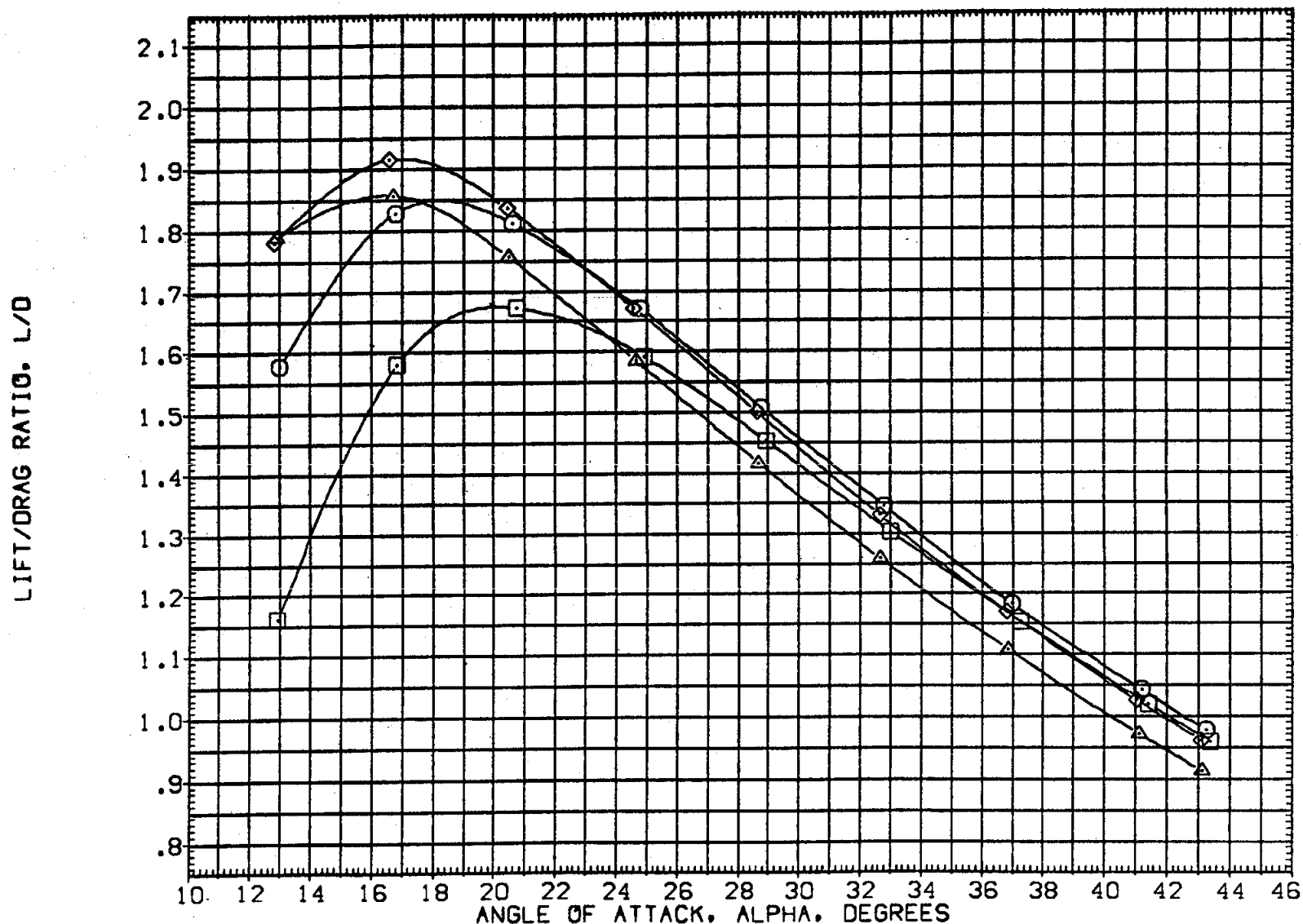


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP007)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE
(DEP013)	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPDRBK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	50. FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

LIFT/DRAG RATIO, L/D

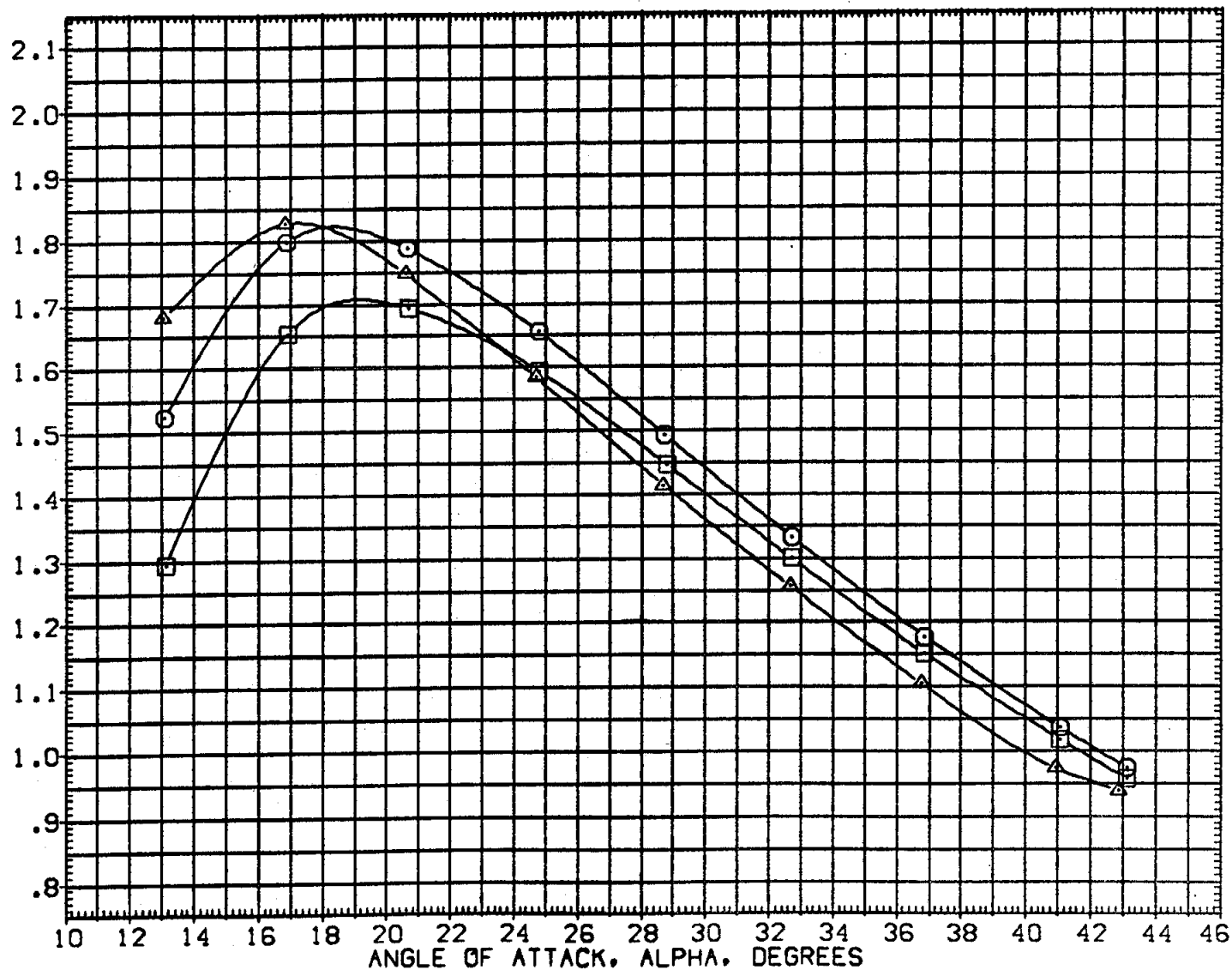


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	○	B26 C9 M7 F7 V116 V8 E37 R5
(DEP007)	□	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	◇	B26 C9 M7 F7 V116 V8 E37 R5
(DEP013)	△	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-11.700	85.000
-40.000	.000	-11.700	85.000
.000	.000	16.300	55.000
15.000	.000	16.300	55.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

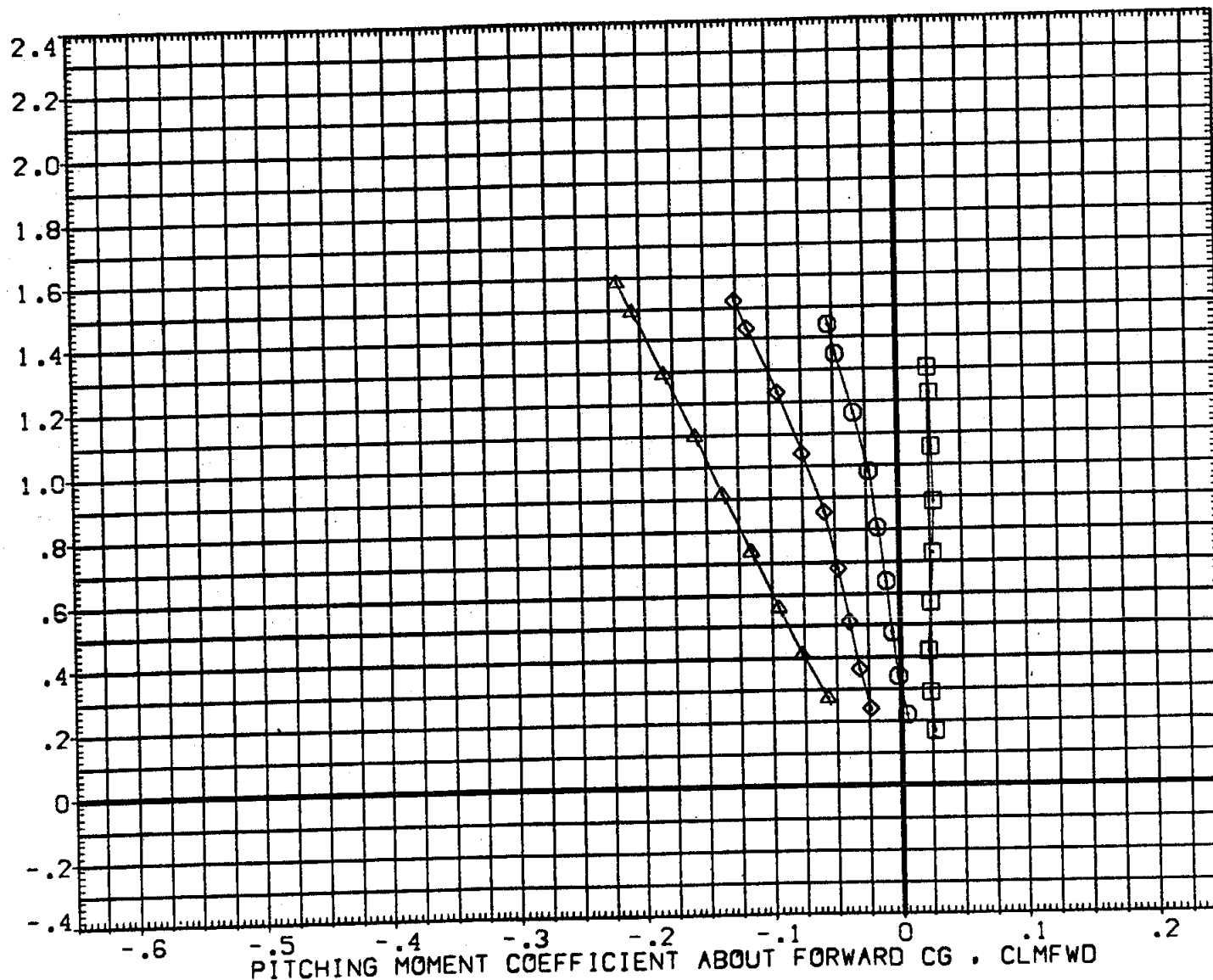


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.
(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP007)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE
(DEP013)	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

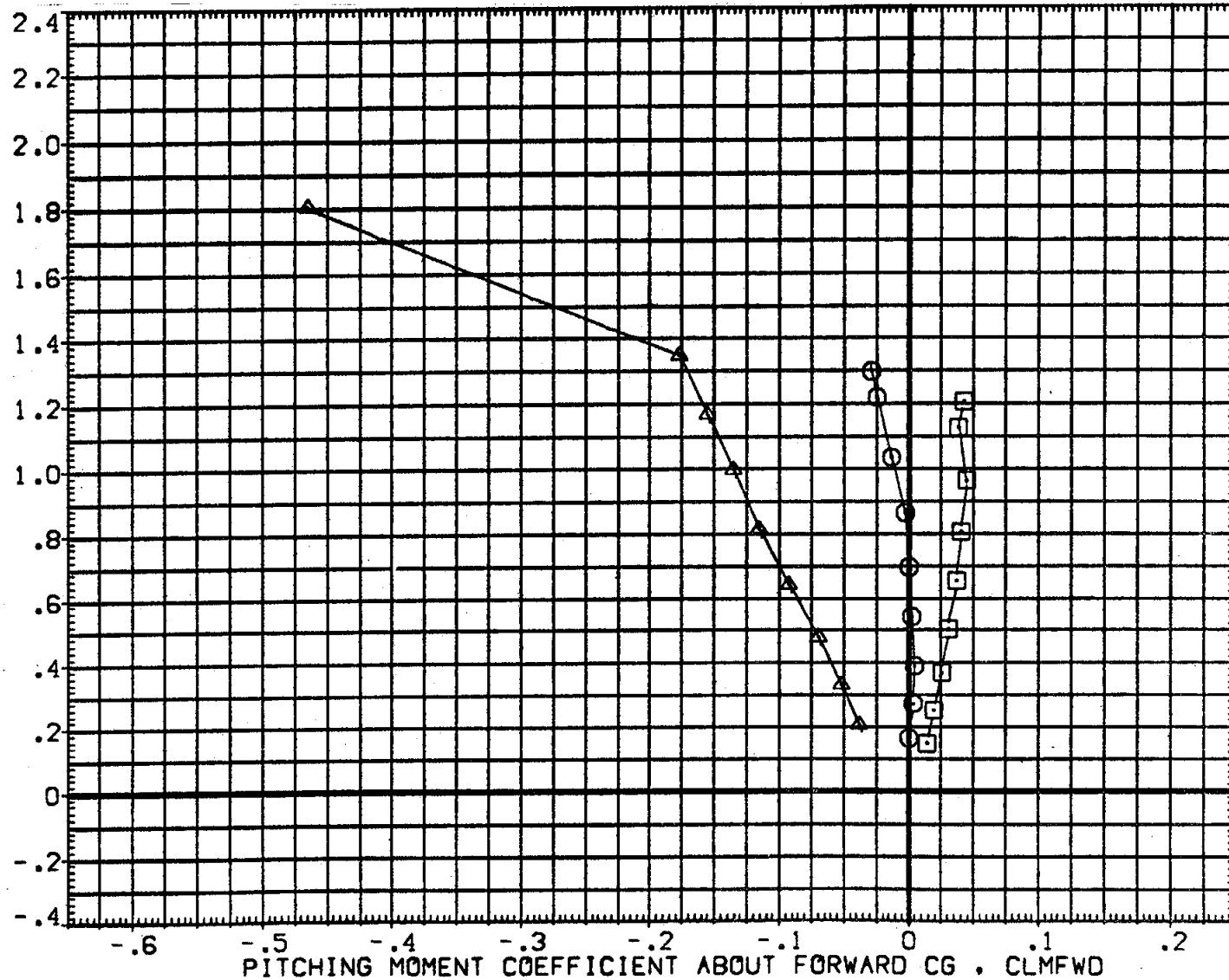


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	○	B26 C9 M7 F7 V116 V8 E37 R5
(DEP007)	□	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	◇	B26 C9 M7 F7 V116 V8 E37 R5
(DEP013)	△	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-11.700	85.000
-40.000	.000	-11.700	85.000
.000	.000	16.300	55.000
15.000	.000	16.300	55.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

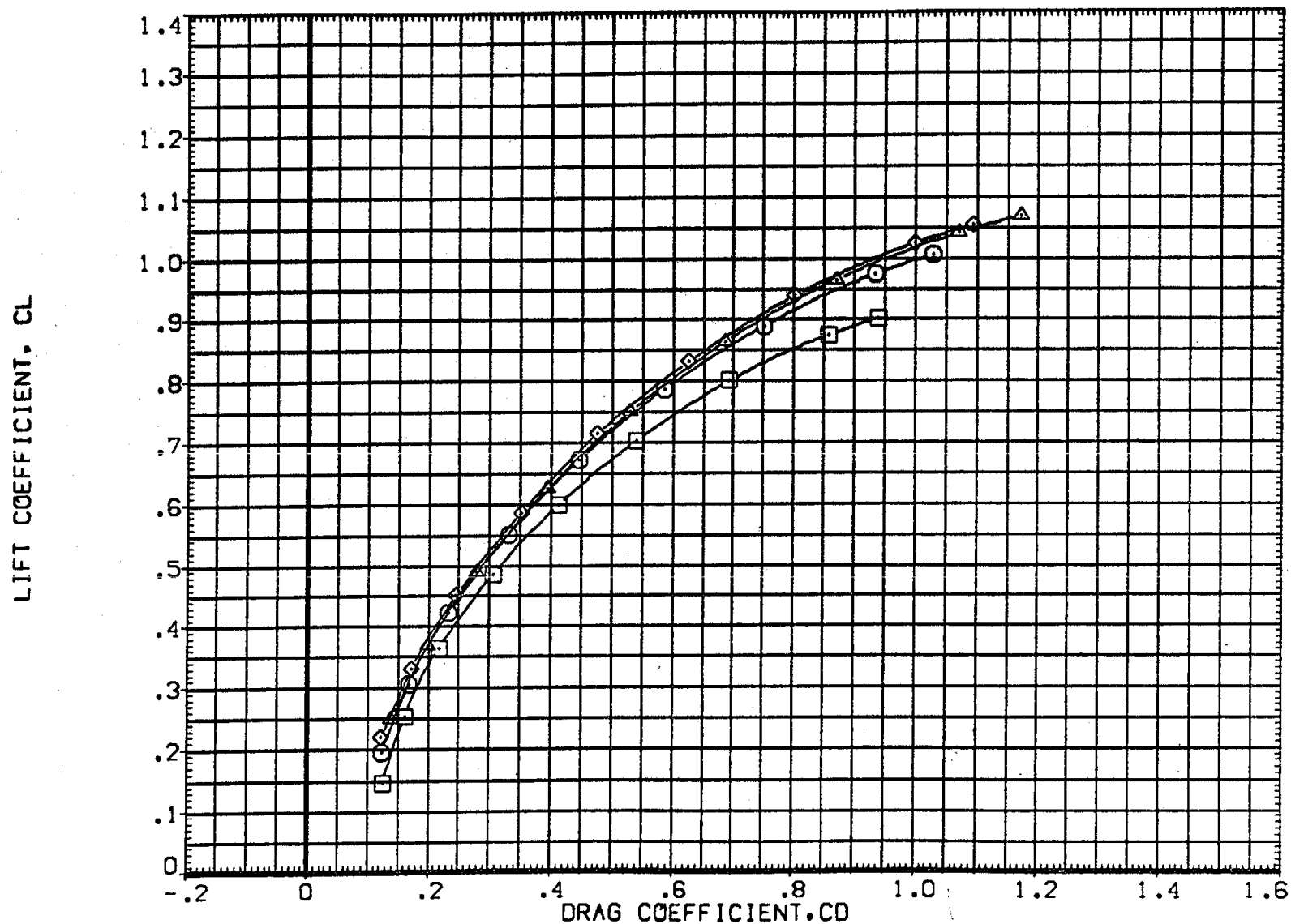


FIG. 5 ELEVON EFFECTIVENESS. BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP011)	826 C9 M7 F7 V116 V8 E37 R5
(DEP007)	826 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE
(DEP013)	826 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BDFLAP	SPDBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

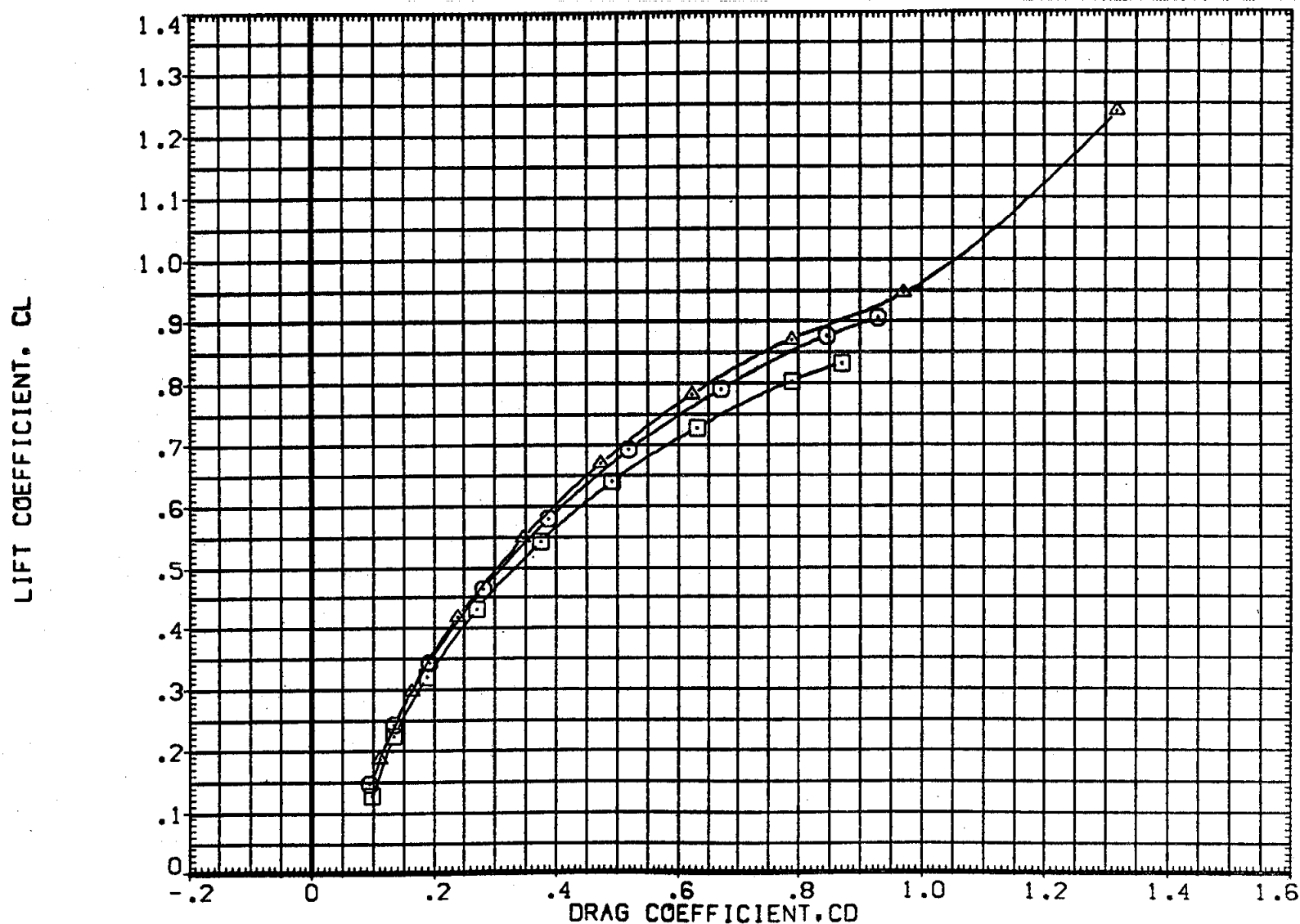
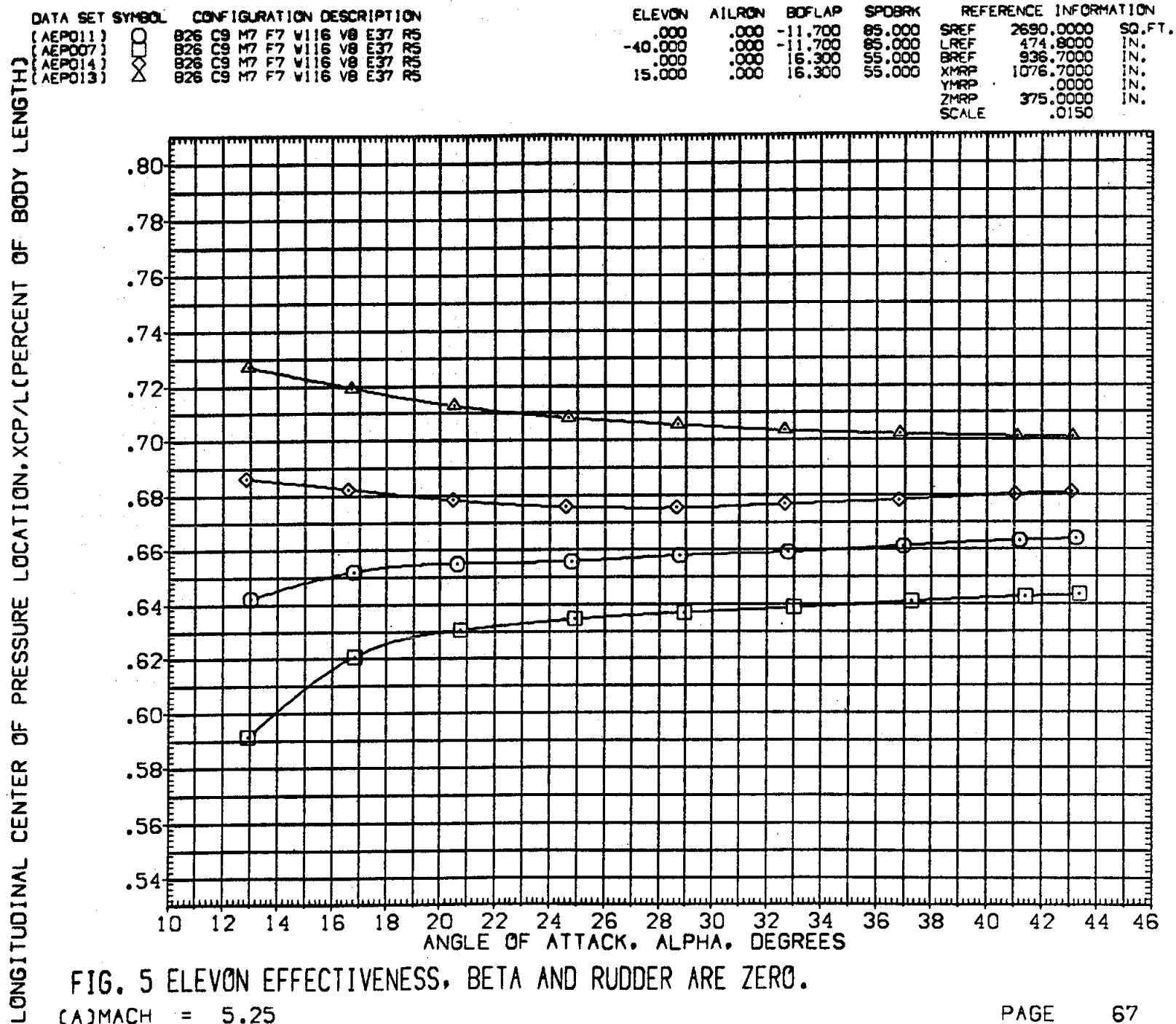


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP011)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP007)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP014)	DATA NOT AVAILABLE
(AEP013)	B26 C9 M7 F7 V116 V8 E37 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
.000	.000	-11.700	85.000	SREF	2680.0000	SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
.000	.000	16.300	55.000	BREF	936.7000	IN.
15.000	.000	16.300	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

LONGITUDINAL CENTER OF PRESSURE LOCATION, XCP/L (PERCENT OF BODY LENGTH)

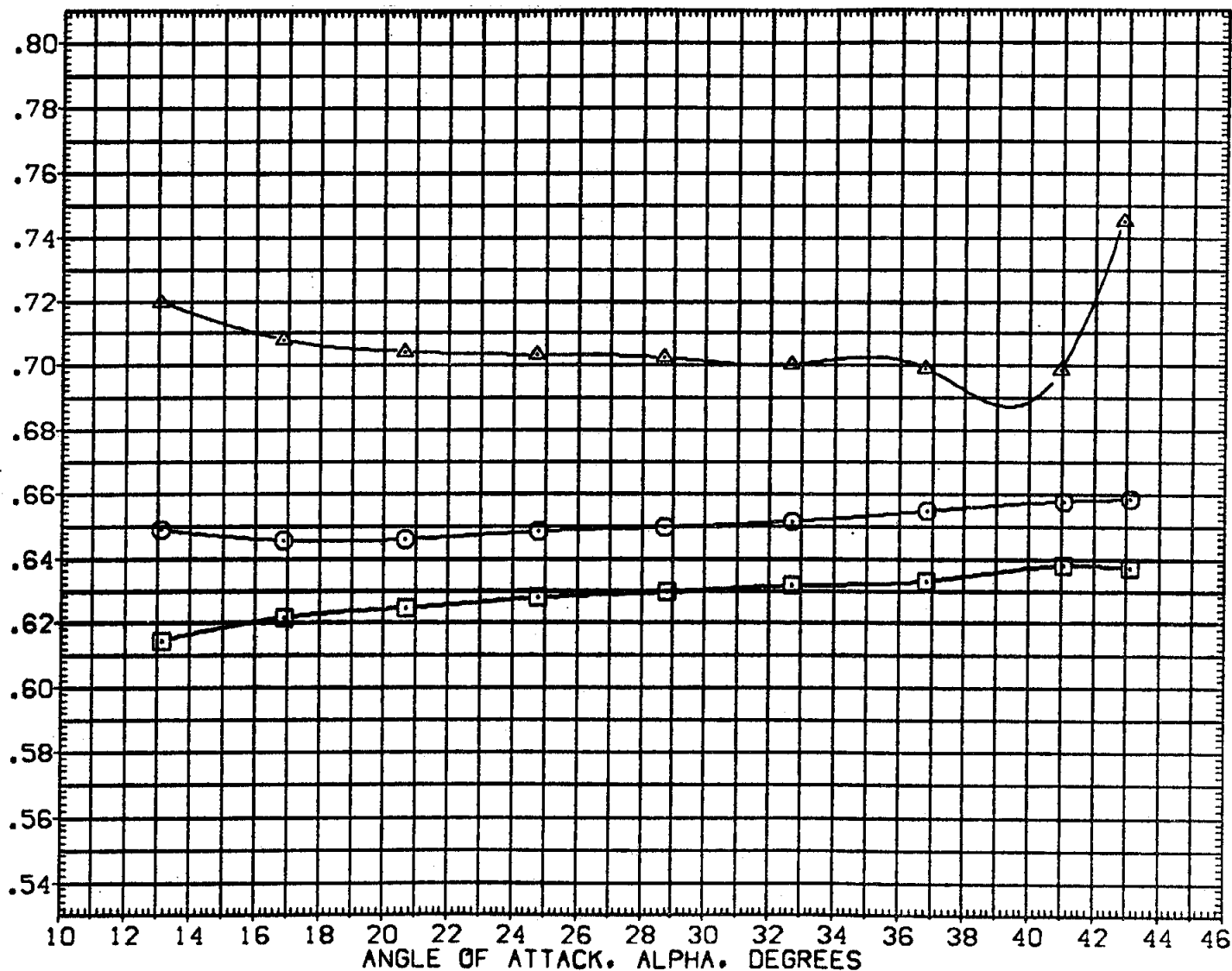


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO07)	826 C9 M7 F7 V116 V8 E37 R5
(GEPO13)	826 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK
-40.000	.000	-11.700	65.000
15.000	.000	16.300	55.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL LIFT COEFFICIENT, DCL

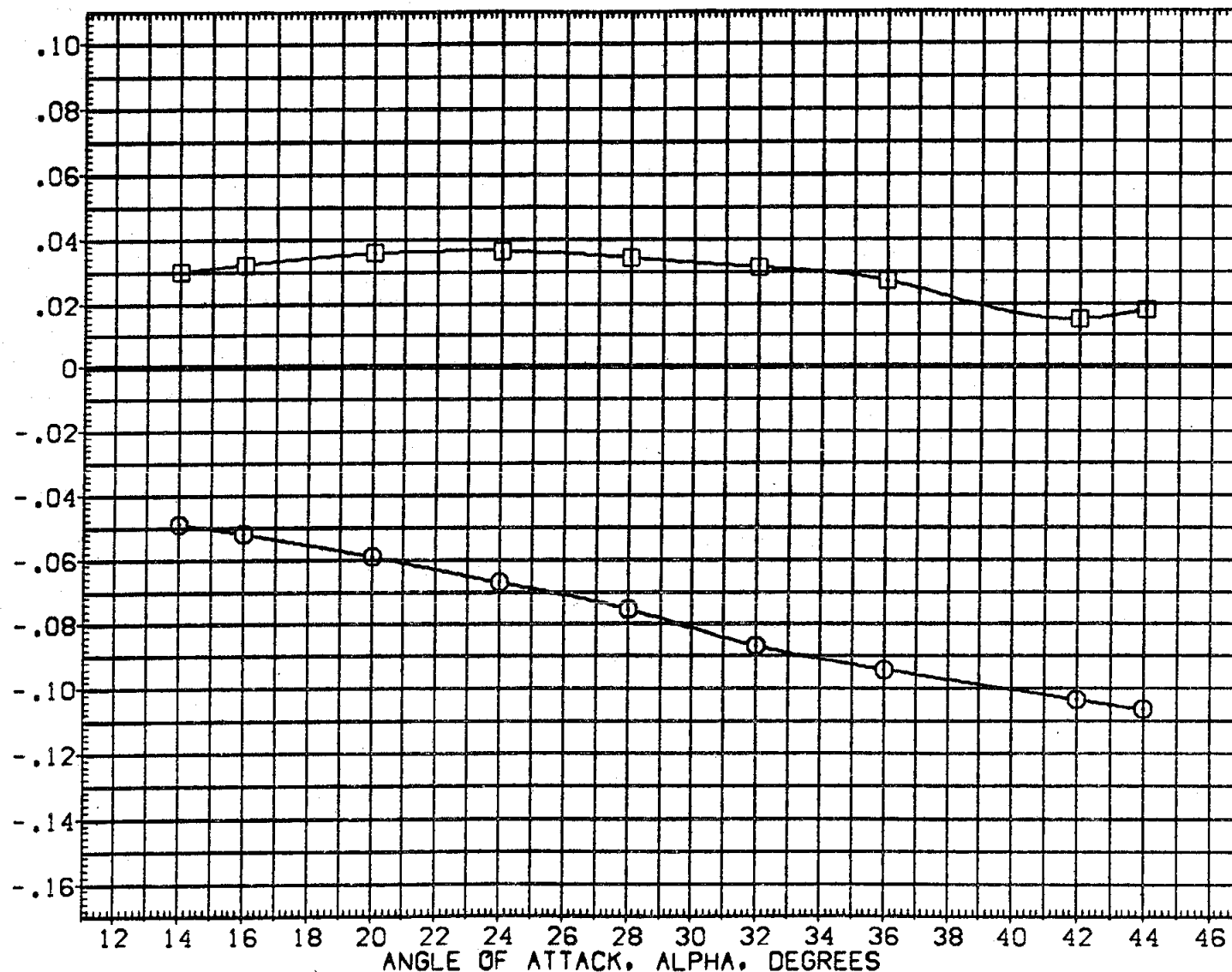


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEP007) ☐ 826 C9 M7 F7 V116 V8 E37 R5
 (GEP013) ☐ DATA NOT AVAILABLE

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
15.000	.000	16.300	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL LIFT COEFFICIENT, DCL

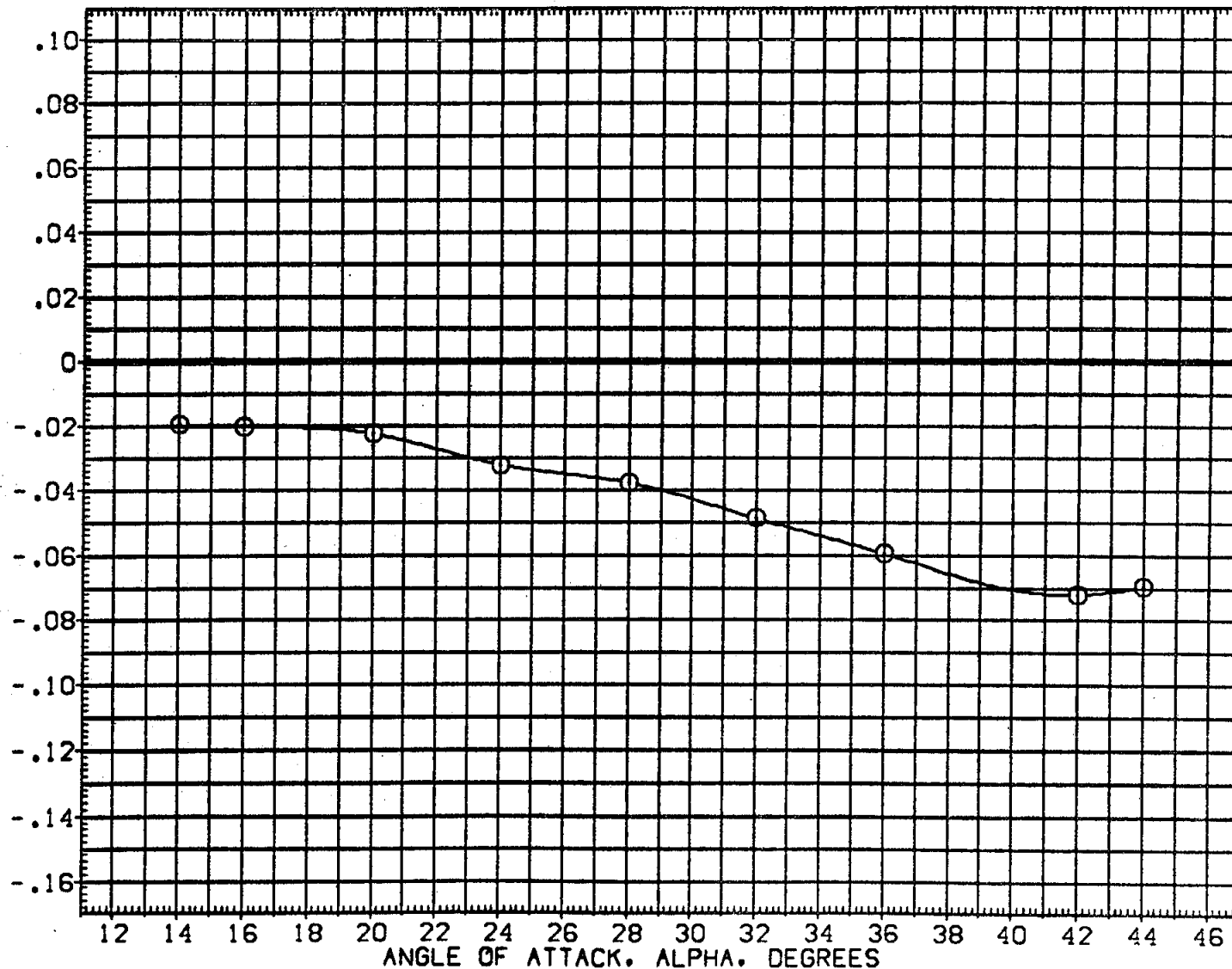


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO07) ○	B26 C9 M7 F7 V116 V8 E37 R5
(GEPO13) □	B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK
-10.000	.000	-11.700	85.000
15.000	.000	16.300	55.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL DRAG COEFFICIENT • DCD

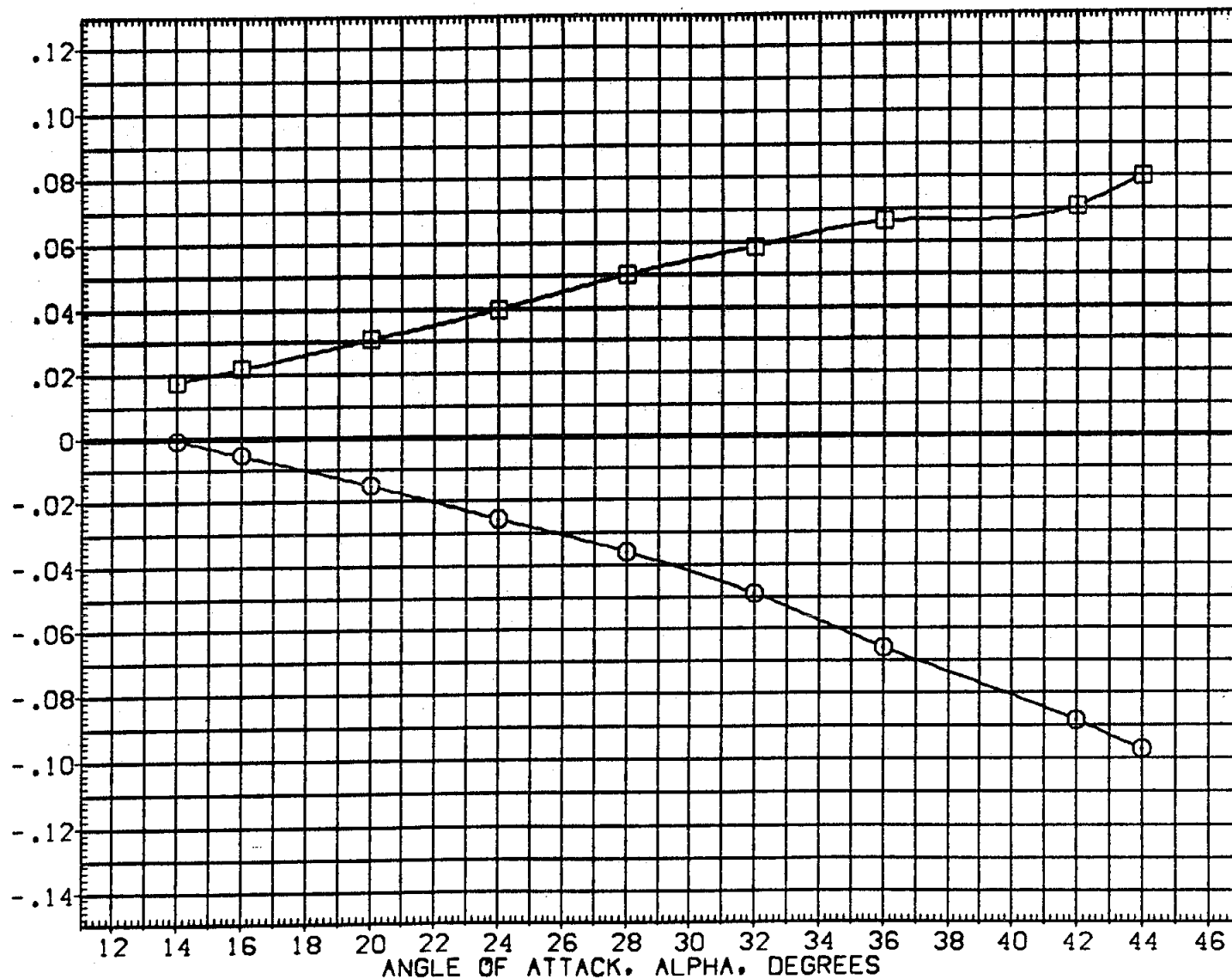


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BEP007) ☐ 826 C9 M7 F7 V116 V8 E37 R5
 (BEP013) ☐ DATA NOT AVAILABLE

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF 2690.0000	50. FT.
15.000	.000	16.300	55.000	LREF 474.8000	IN.
				BREF 936.7000	IN.
				XMRP 1076.7000	IN.
				YMRP .0000	IN.
				ZMRP 375.0000	IN.
				SCALE .0150	

INCREMENTAL DRAG COEFFICIENT • DCD

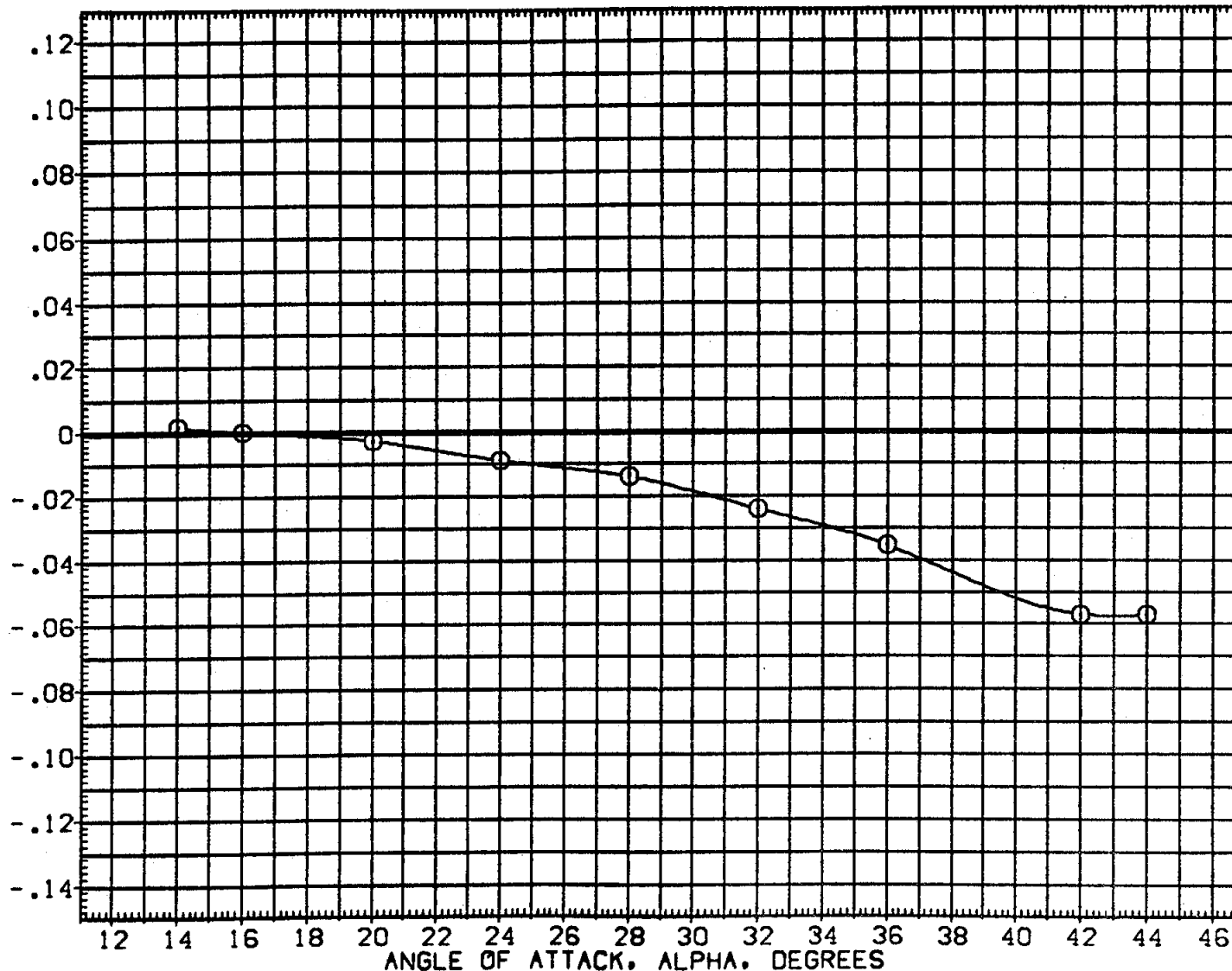


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.
 (B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO07)	B26 C9 M7 F7 V116 V8 E37 R5
(GEPO13)	B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
15.000	.000	16.300	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL AXIAL FORCE COEFFICIENT, DCA

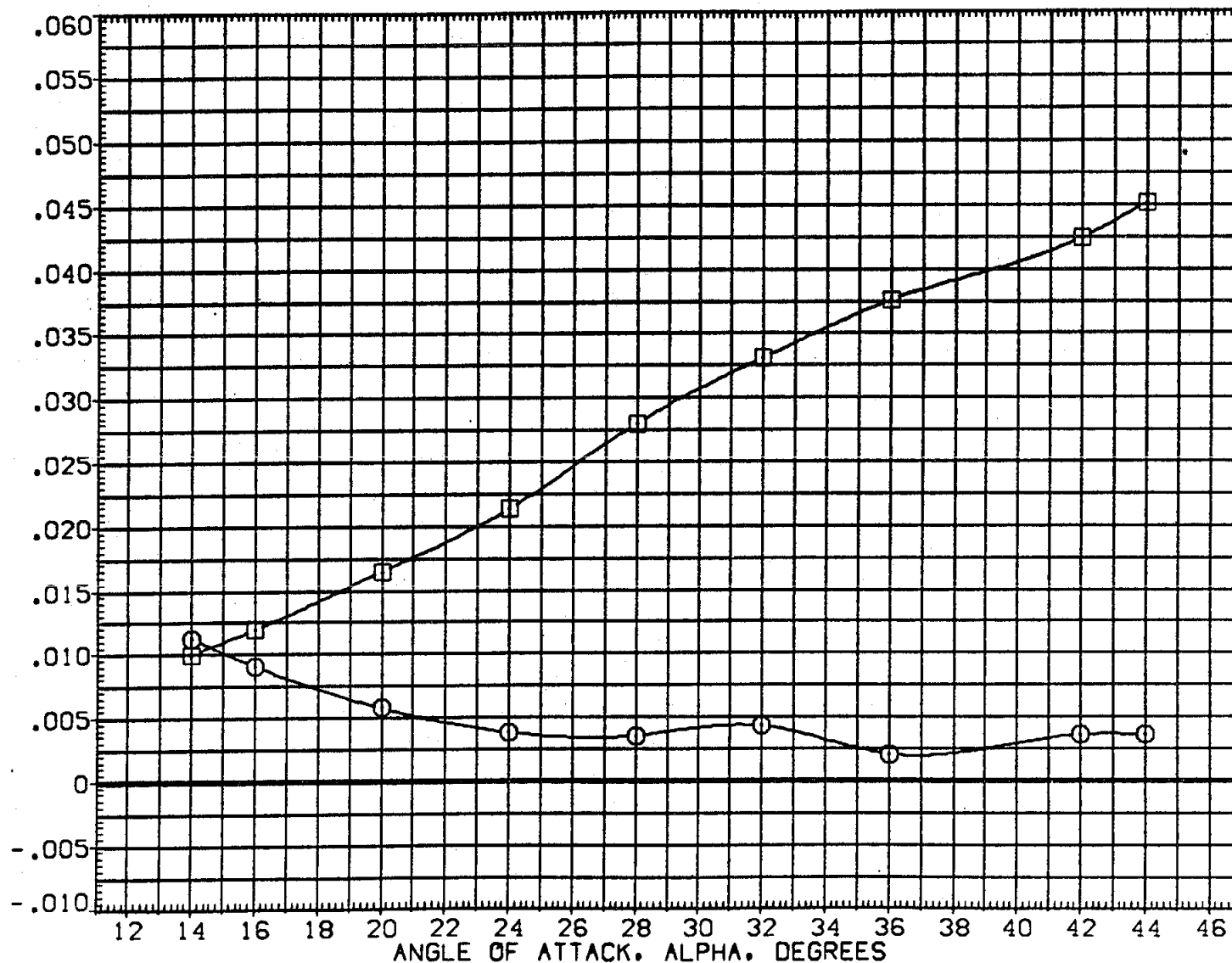


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEP007) ☐ 826 C9 M7 F7 V116 V8 E37 R5
 (GEP013) ☐ DATA NOT AVAILABLE

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
15.000	.000	16.300	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL AXIAL FORCE COEFFICIENT • DCA

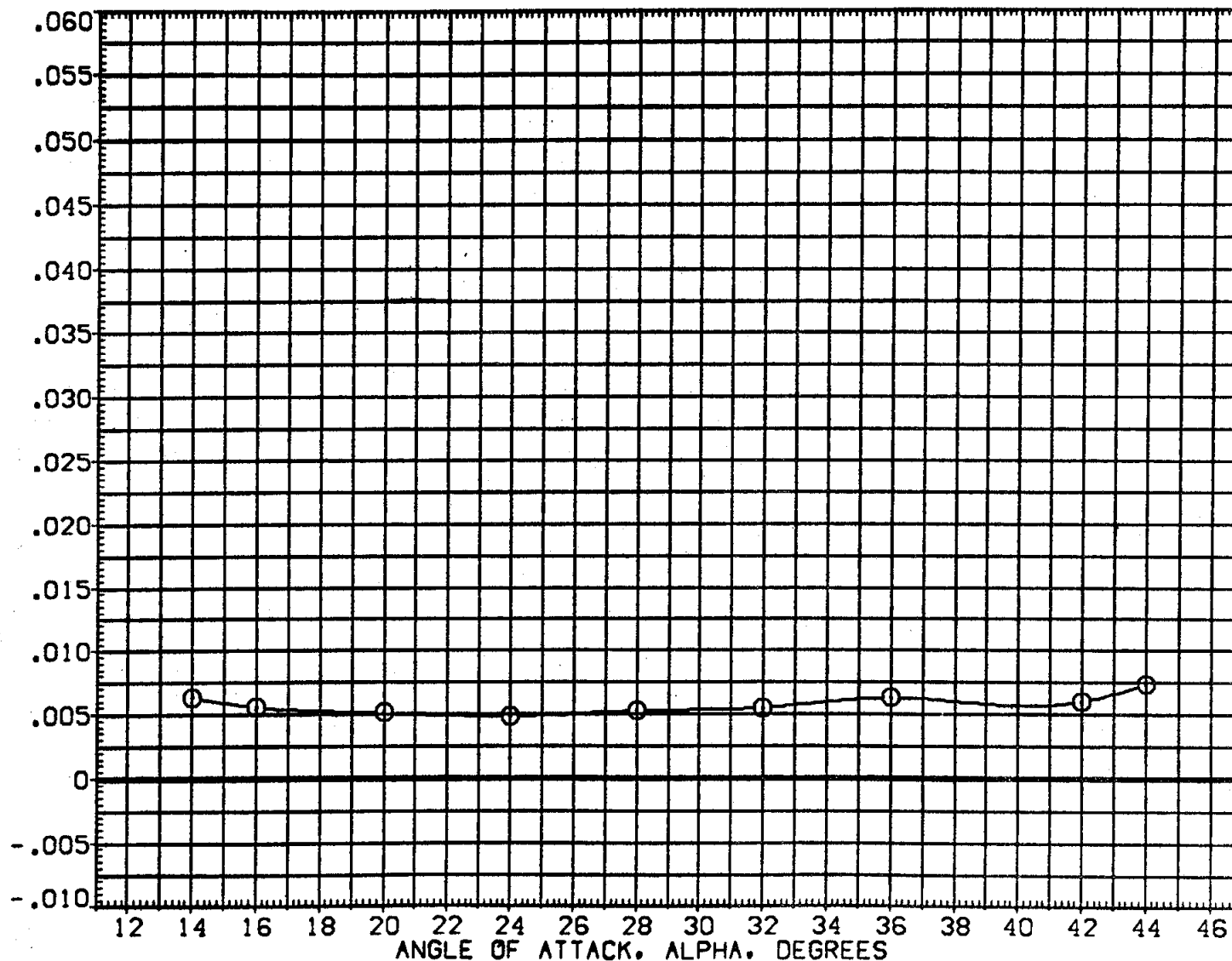


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO07)	○ B26 C9 M7 F7 W116 V8 E37 R5
(GEPO13)	□ B26 C9 M7 F7 W116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK
-40.000	.000	-11.700	85.000
15.000	.000	16.300	55.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT • DCAF

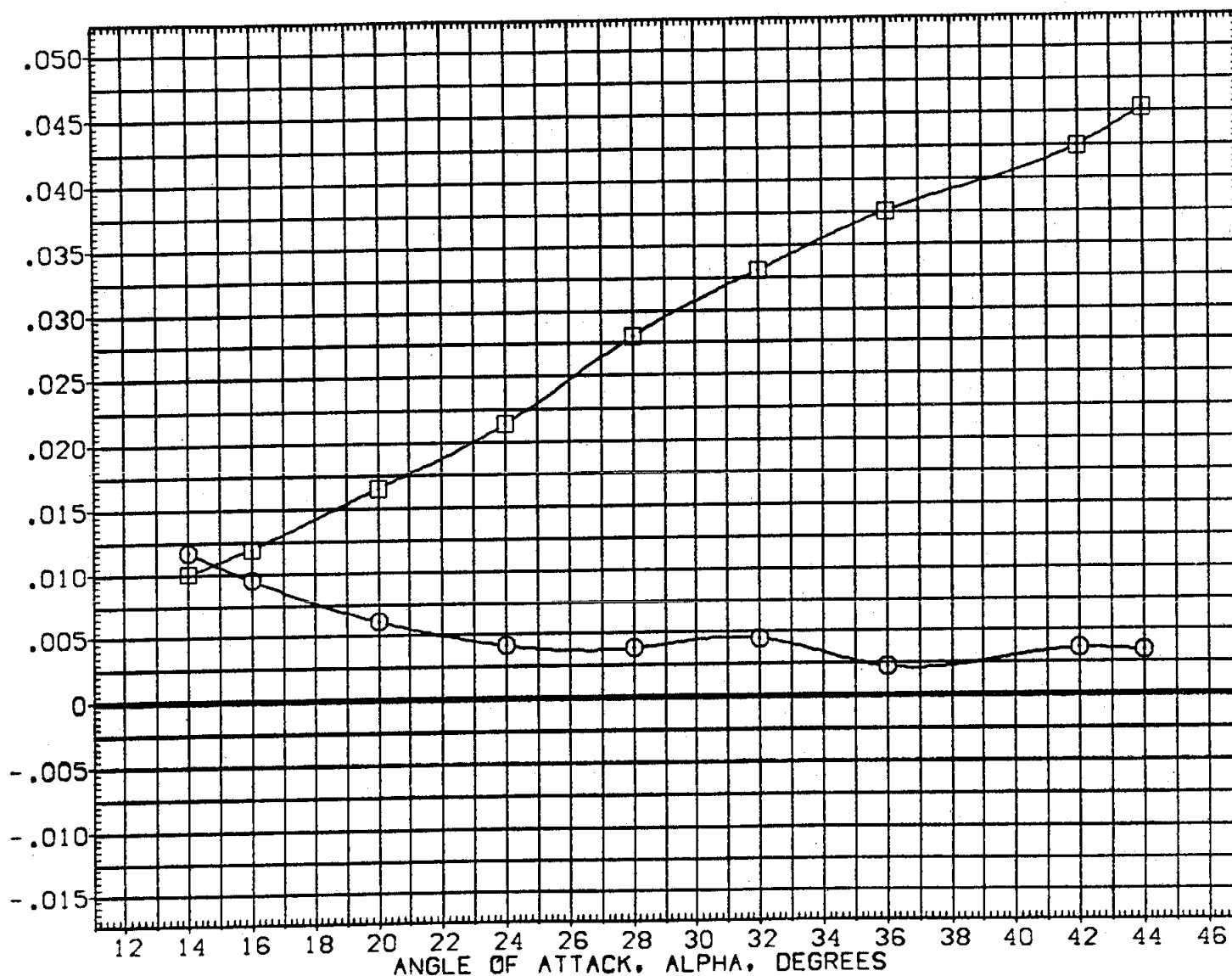


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GE007) ○ B26 C9 M7 F7 V116 V8 E37 R5
 (GE013) □ DATA NOT AVAILABLE

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	65.000	SREF	2690.0000 SQ.FT.
15.000	.000	16.300	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

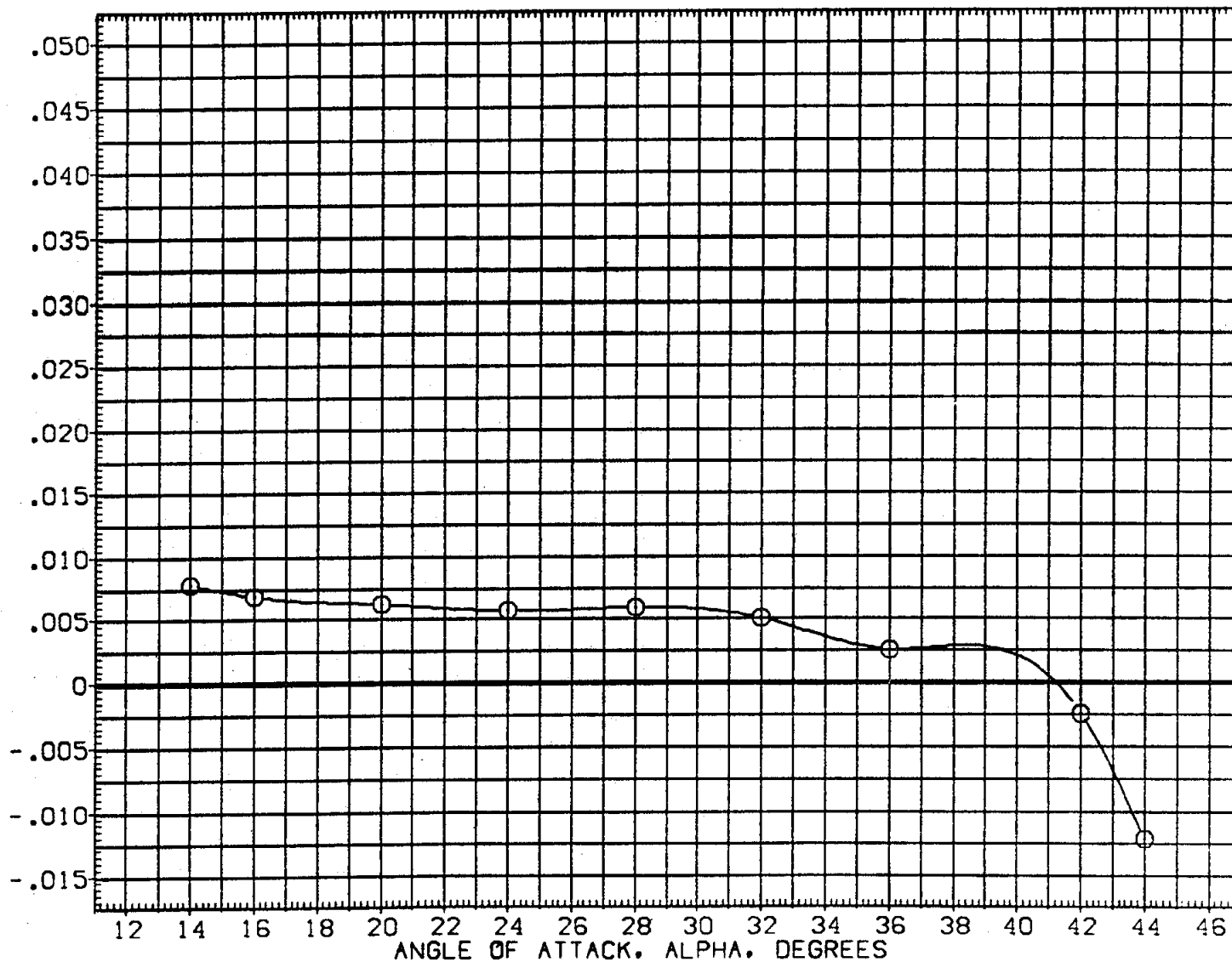


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEP007)	826 C9 M7 F7 V116 V8 E37 R5
(GEP013)	826 C9 M7 F7 V116 V8 E37 R5

DELEVN	ATLRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
15.000	.000	16.300	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL BASE AXIAL FORCE COEFFICIENT, DCAB

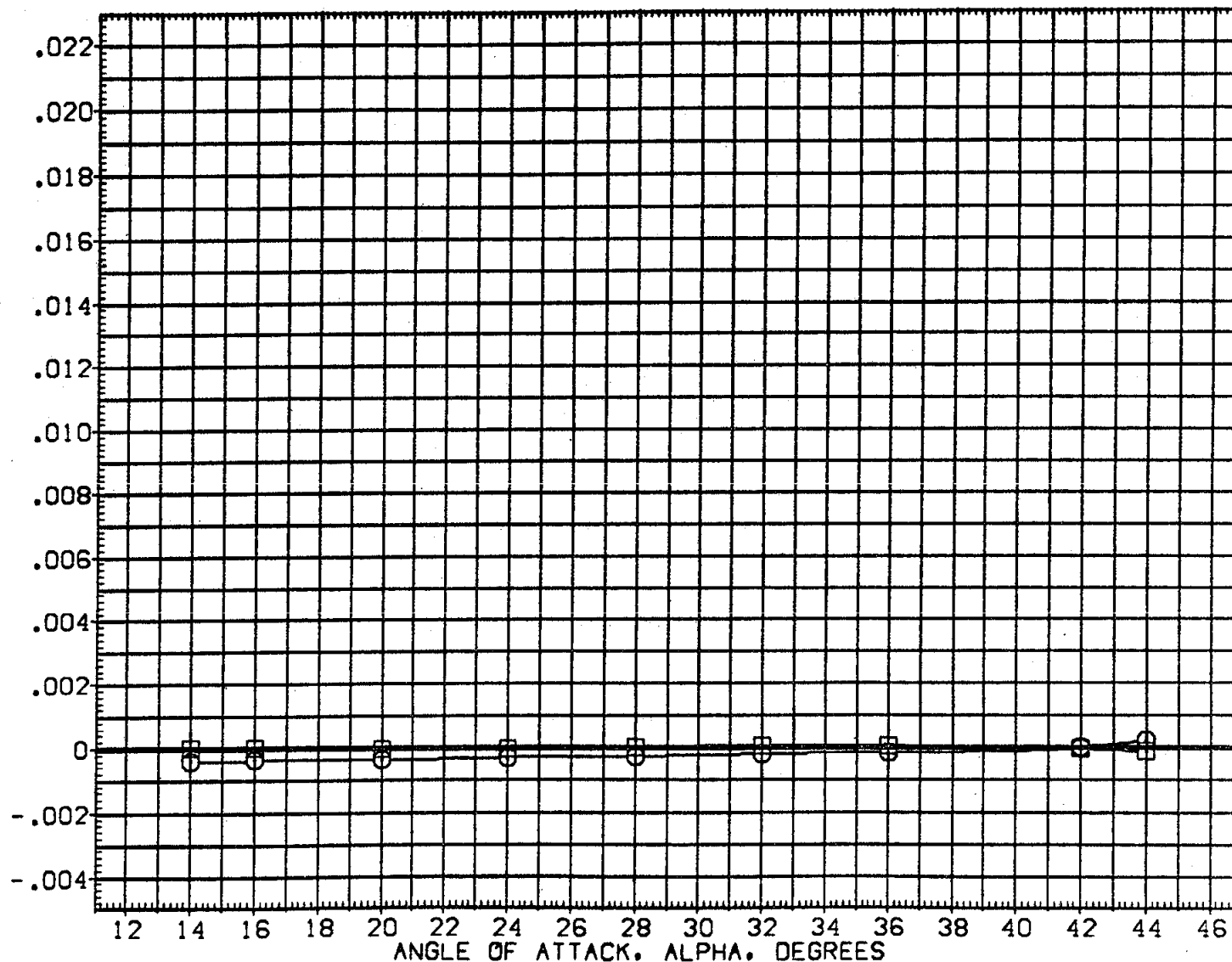




FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEP007)  826 C9 M7 F7 V116 V8 E37 R5
 (GEP013)  DATA NOT AVAILABLE

DELEVN	A1LRON	BOFLAP	SPOBRK
-40.000	.000	-11.700	85.000
15.000	.000	16.300	55.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

INCREMENTAL BASE AXIAL FORCE COEFFICIENT, DCAB

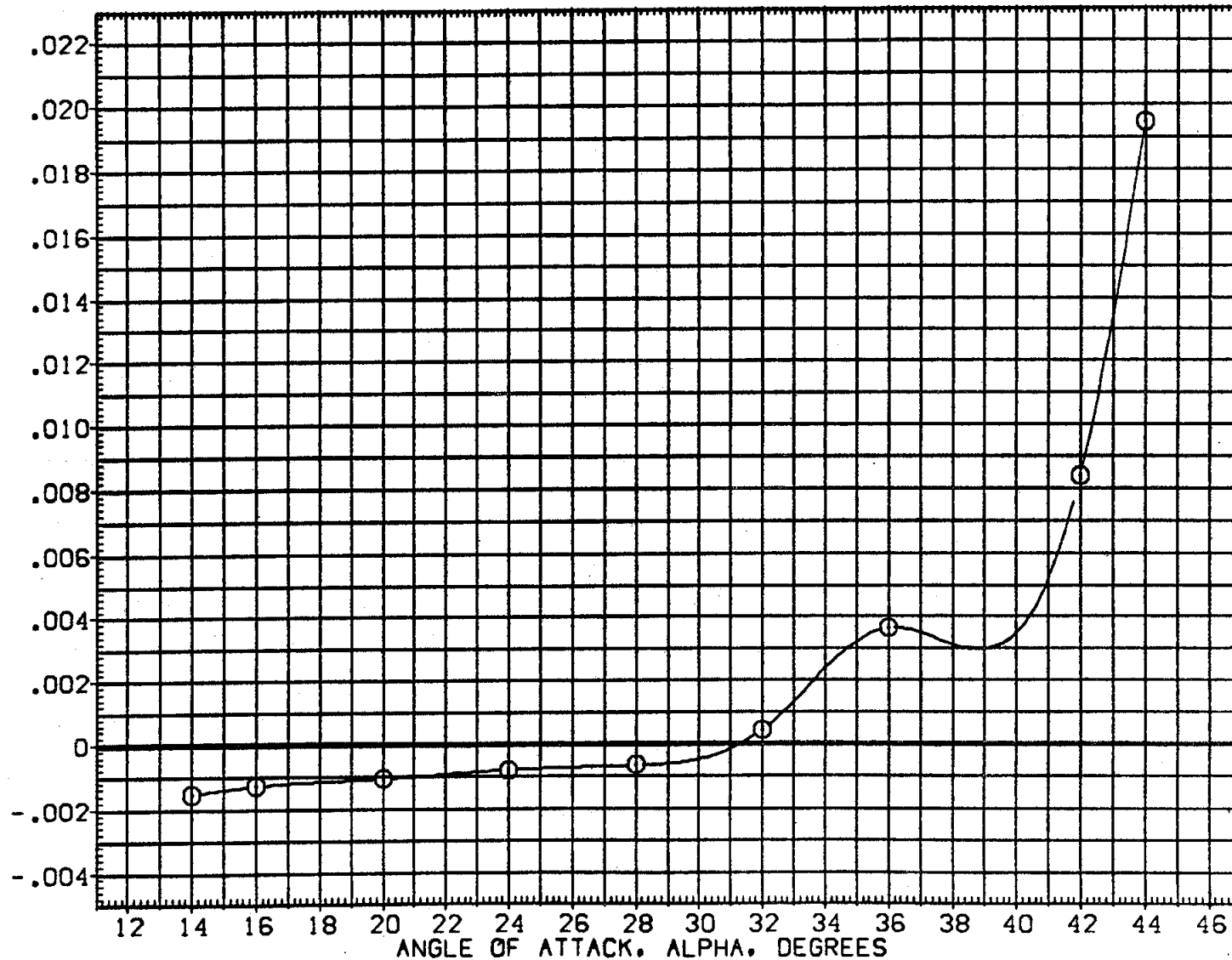


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO07)	□ B26 C9 M7 F7 V116 V8 E37 R5
(GEPO13)	□ B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BDCLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
15.000	.000	16.300	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL NORMAL FORCE COEFFICIENT • DCN

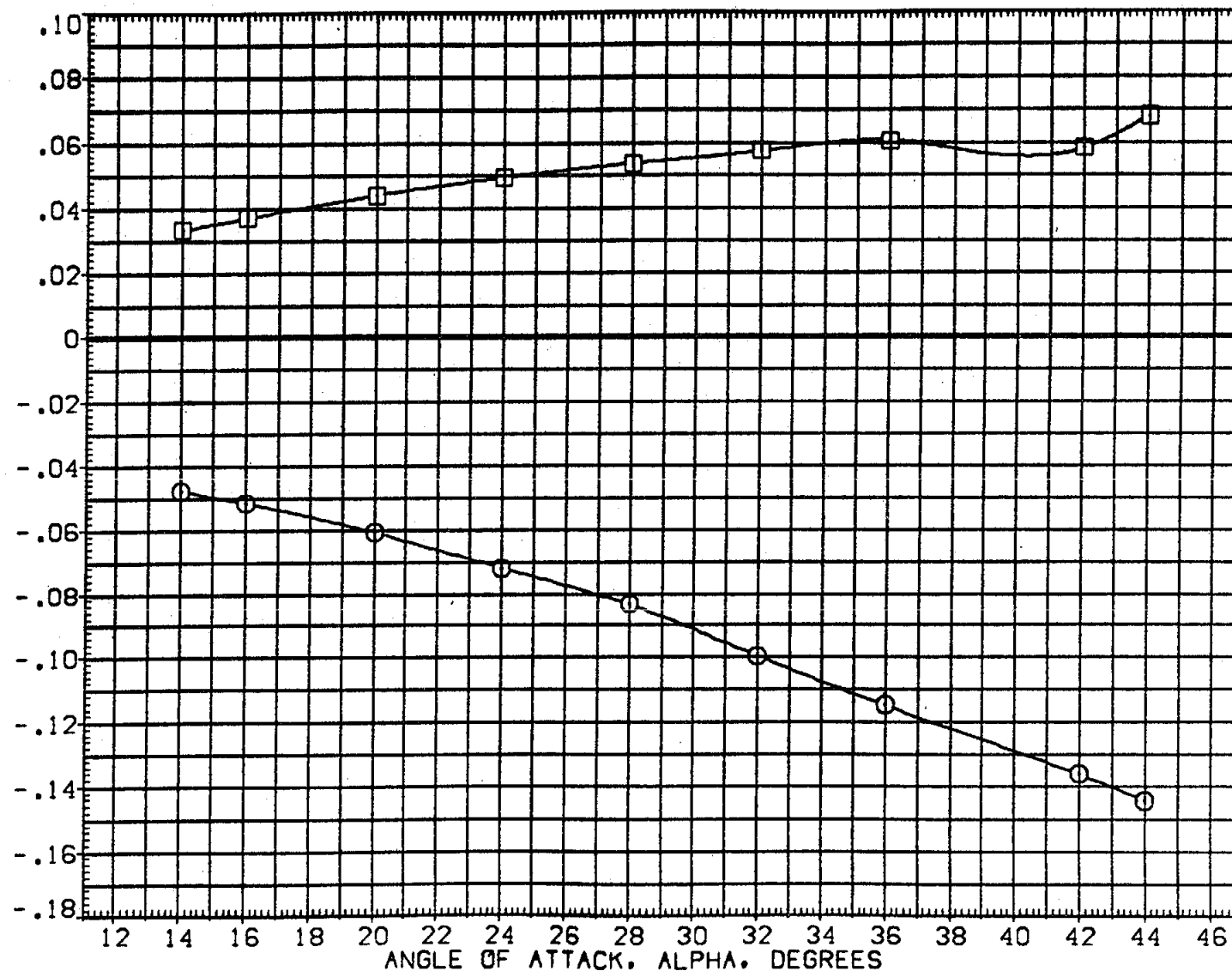


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [GEP007] ○ B26 C9 M7 F7 V116 V8 E37 R5
 [GEP013] □ DATA NOT AVAILABLE

DELEVN AILRON BOFLAP SPOBRK
 -40.000 .000 -11.700 85.000
 15.000 .000 16.300 55.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.7000 IN.
 XMRP 1076.7000 IN.
 YMRP .0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0150

INCREMENTAL NORMAL FORCE COEFFICIENT • DCN

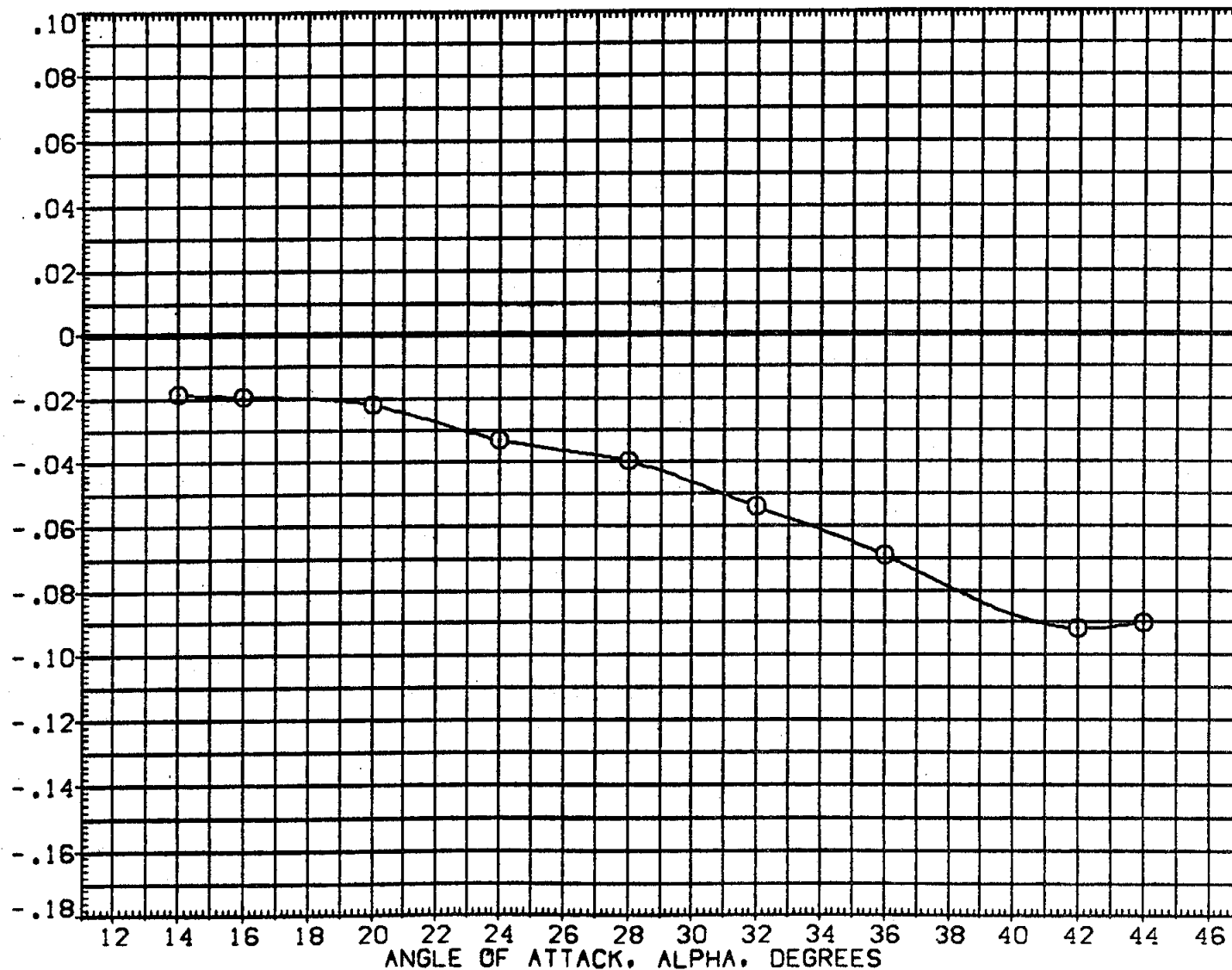


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO07)	826 C9 M7 F7 V116 V8 E37 R5
(GEPO13)	826 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
15.000	.000	16.300	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT FWD CG • DCMFWD

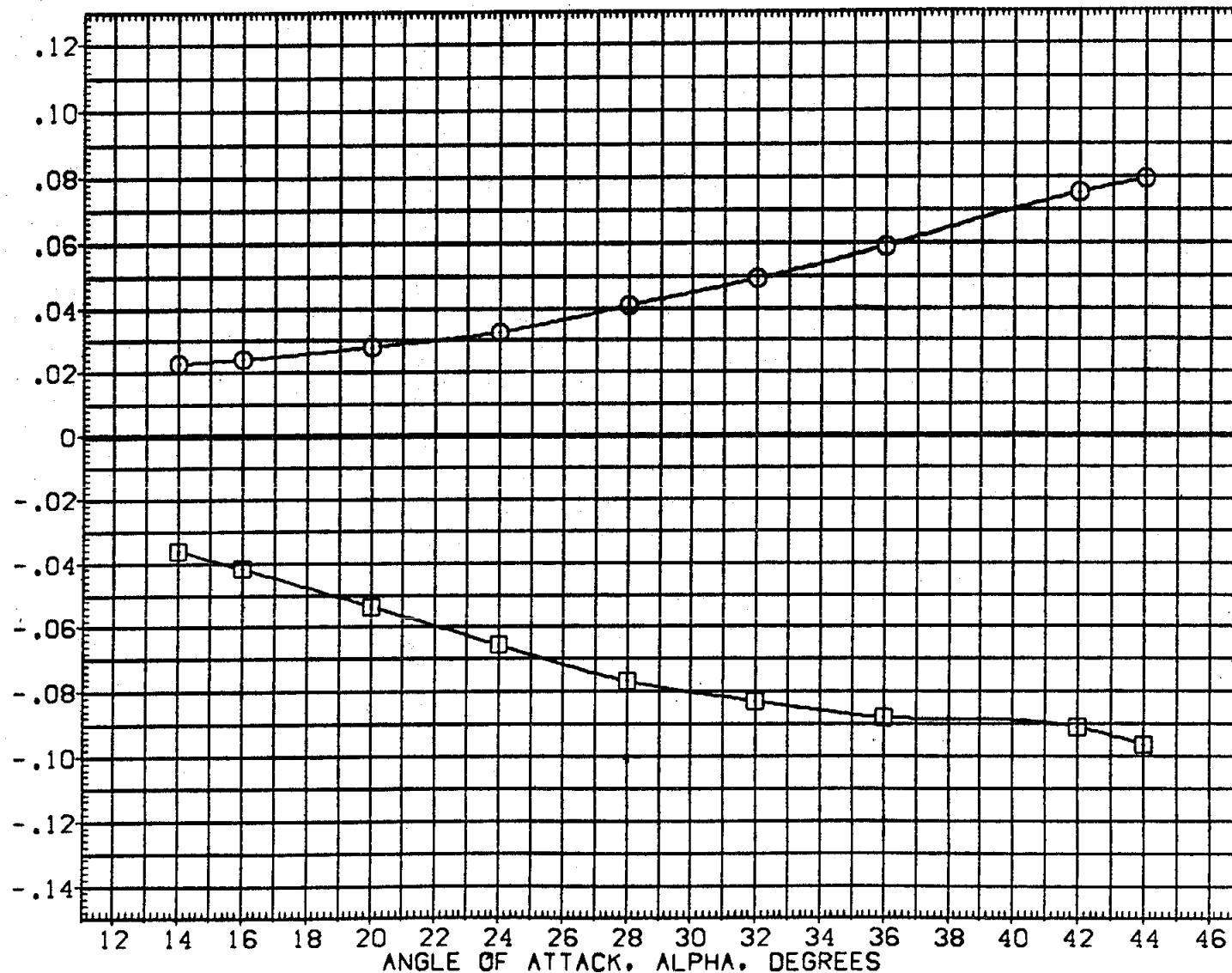


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A) MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEPO07) ☐ B26 C9 M7 F7 W116 V8 E37 R5
 (GEPO13) ☐ DATA NOT AVAILABLE

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 50.FT.
15.000	.000	16.300	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT FWD CG . DCMFWD

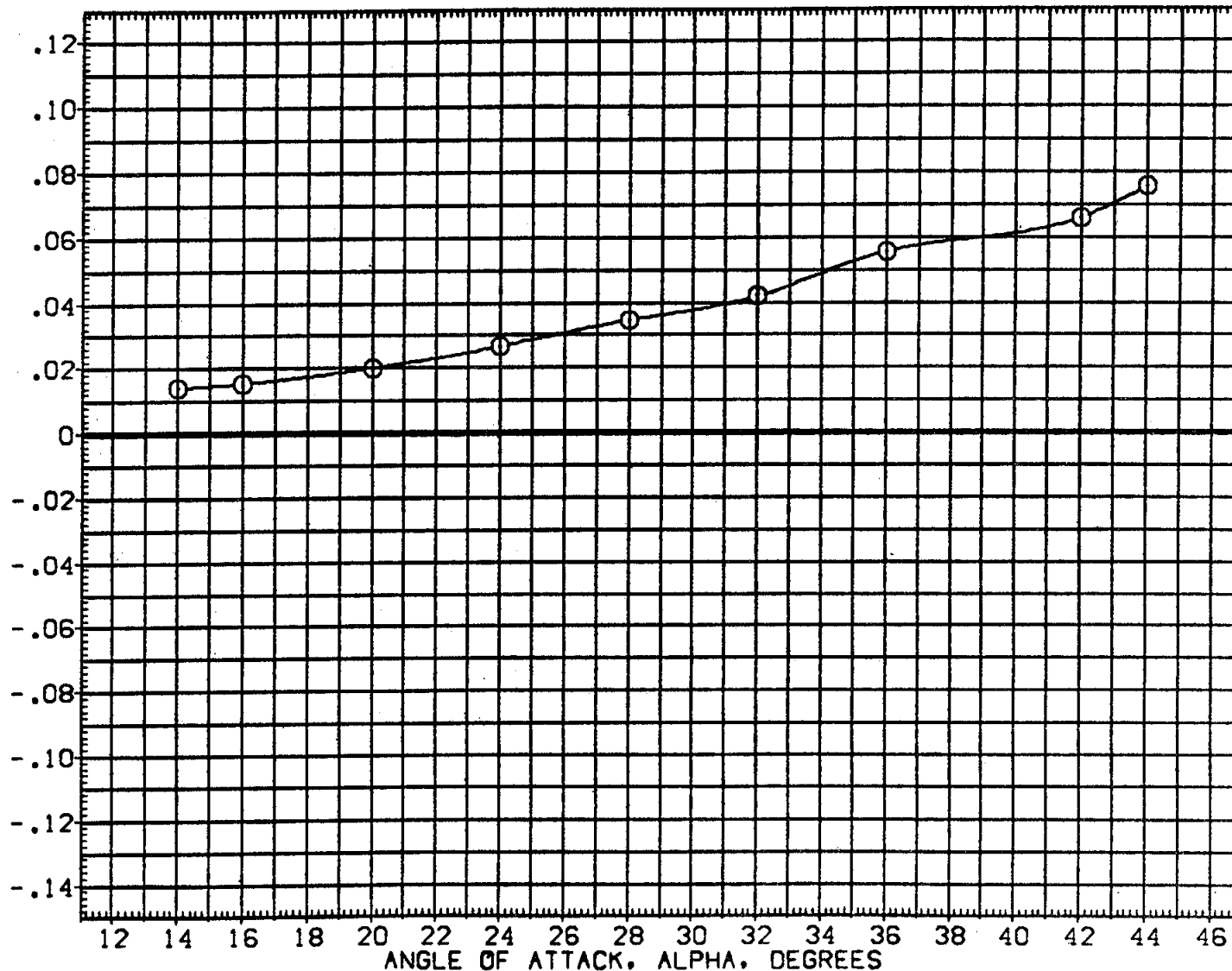


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO07)	□ B26 C9 M7 F7 V116 V8 E37 R5
(GEPO13)	□ B26 C9 M7 F7 V116 V8 E37 R5

DELEVN	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION	
-10.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
15.000	.000	16.300	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT AFT CG, DCMAFT

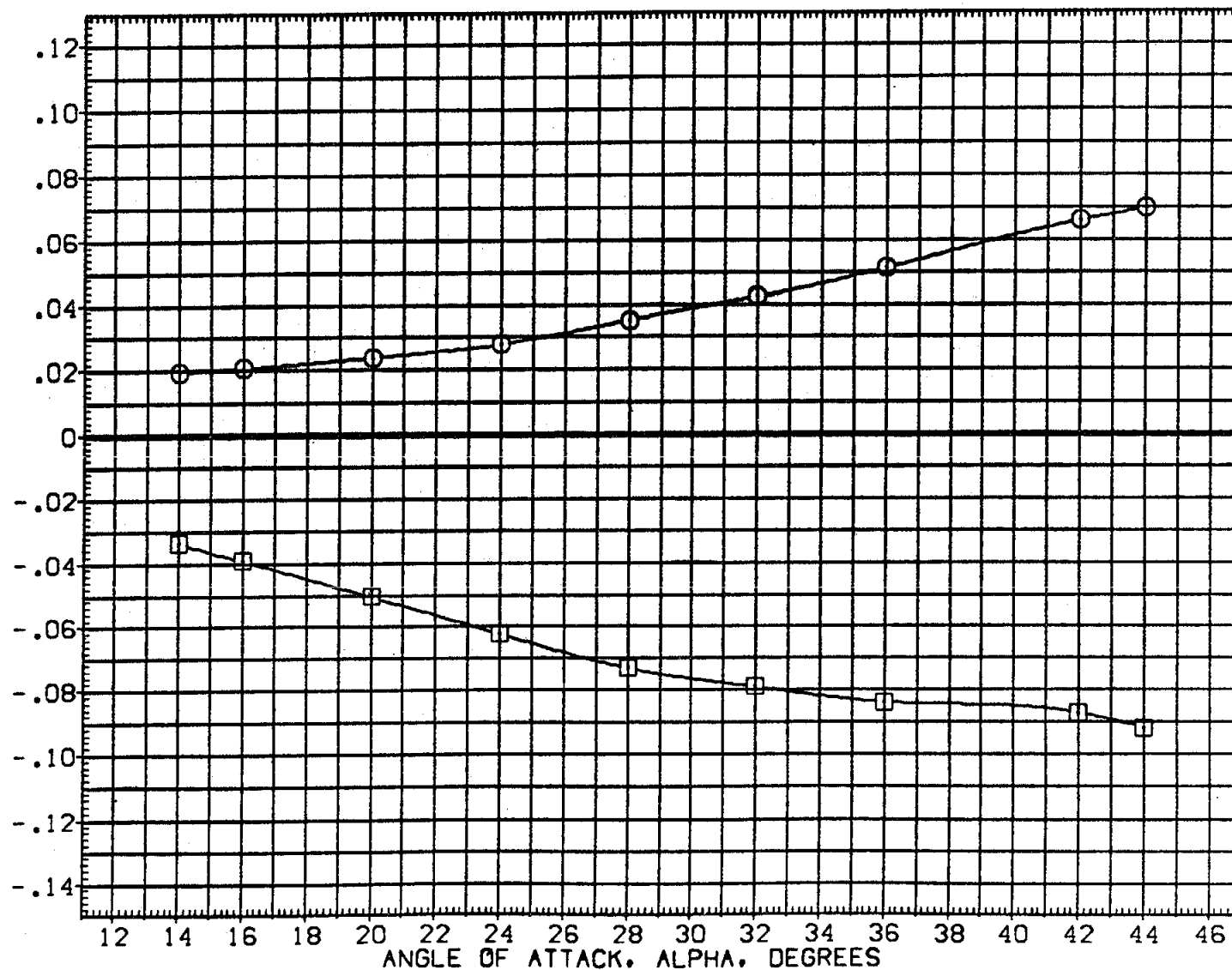


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEPO07) ☐ B26 C9 M7 F7 V116 V8 E37 R5
 (GEPO13) ☐ DATA NOT AVAILABLE

DELEVN	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
15.000	.000	16.300	55.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT AFT CG. DCMAFT

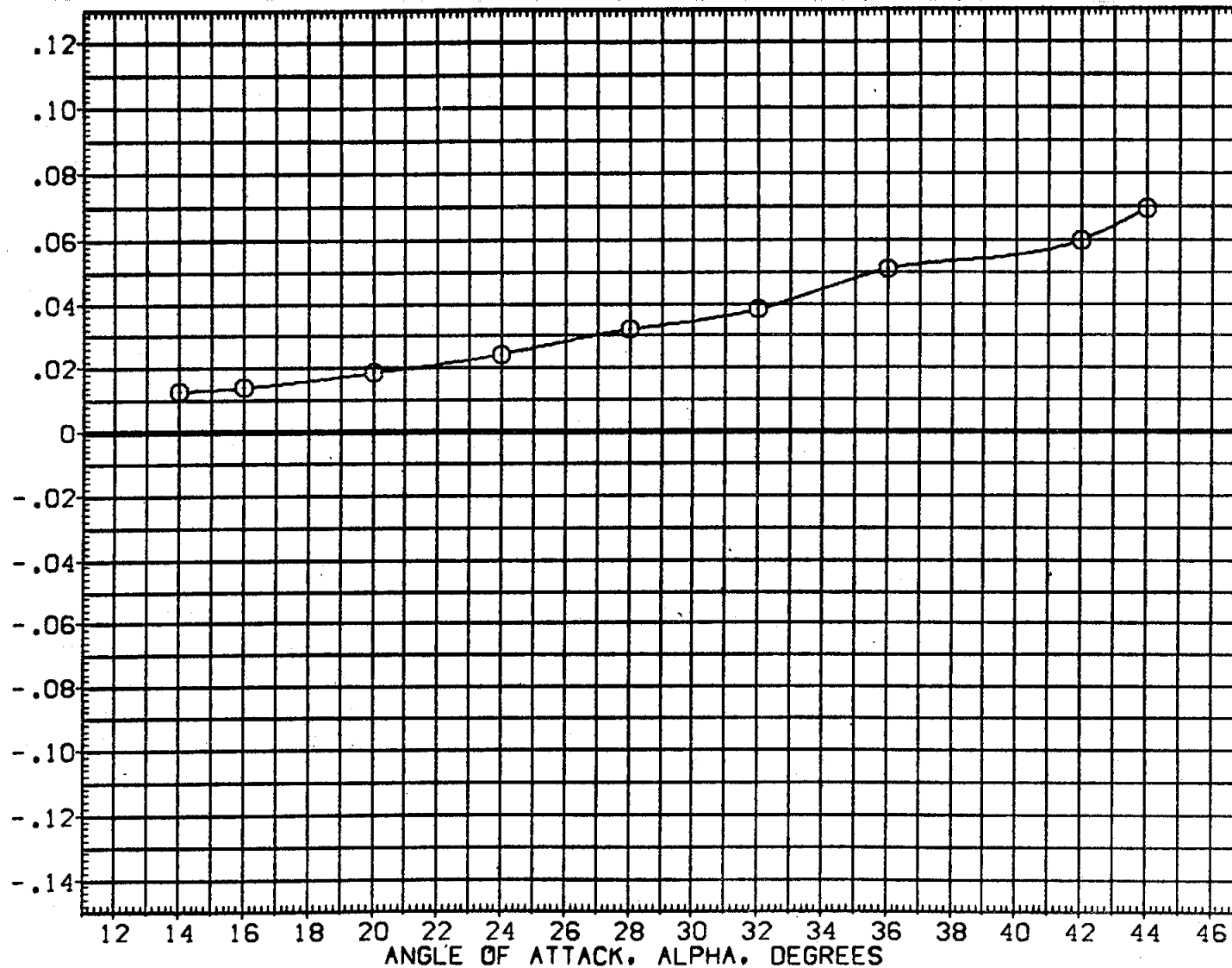


FIG. 5 ELEVON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16) ○	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO12) □	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO14) ◇	B26 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

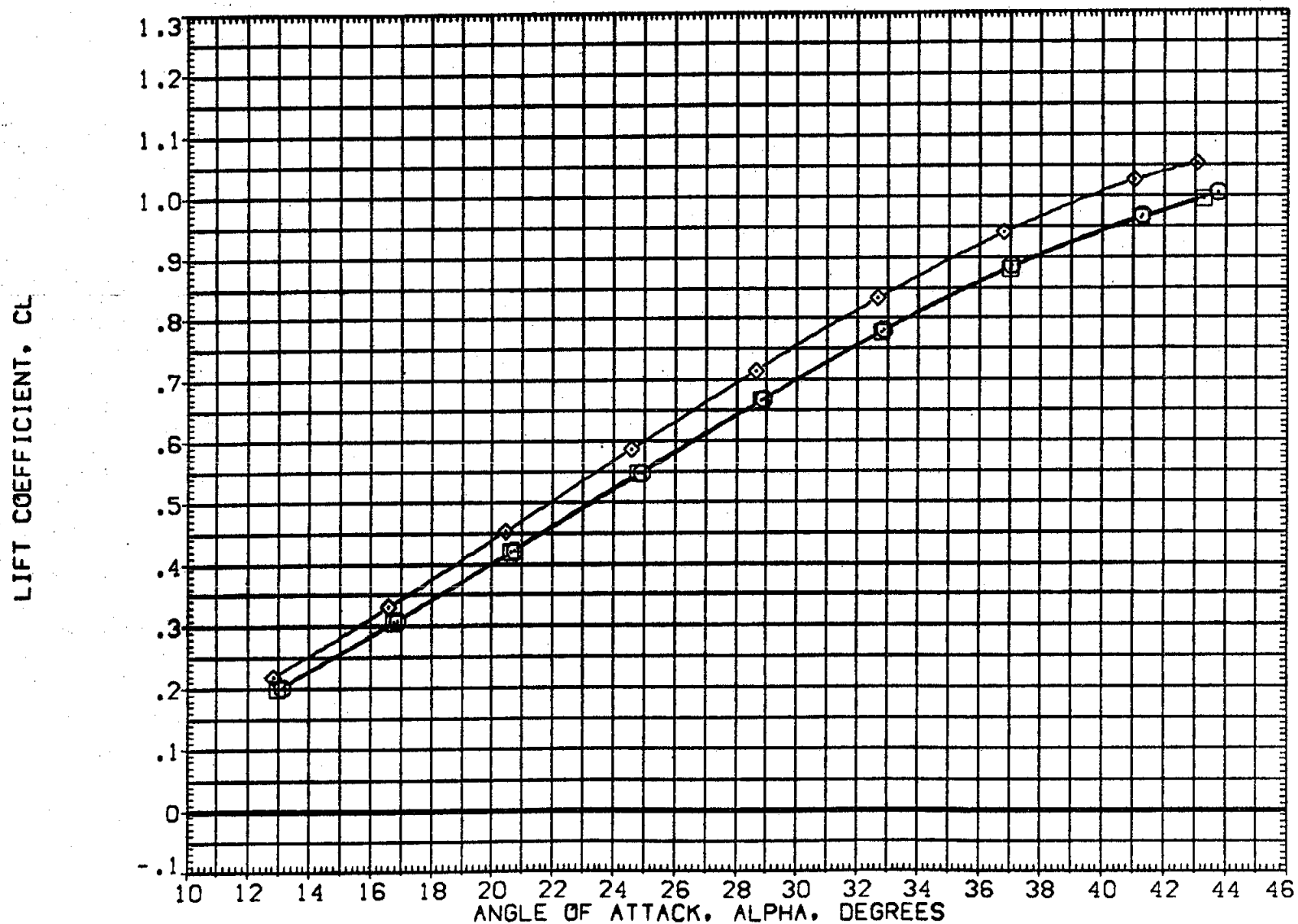


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP016)	□ B26 C9 M7 F7 V116 V8 E37 R5
(DEP012)	□ B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	◇ DATA NOT AVAILABLE

BOFLAP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	50.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

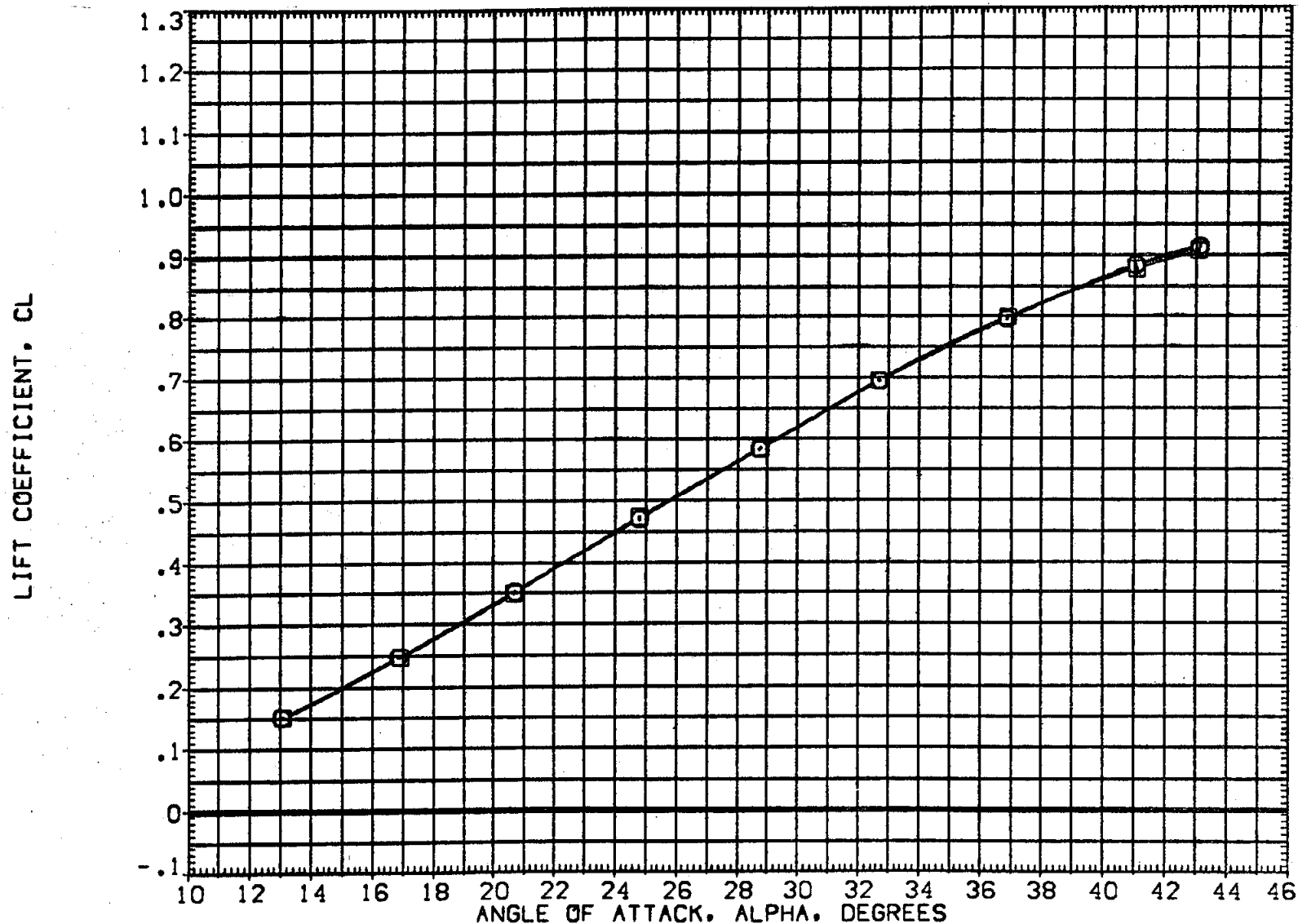


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.
(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16)	○	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO12)	□	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO14)	◇	B26 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

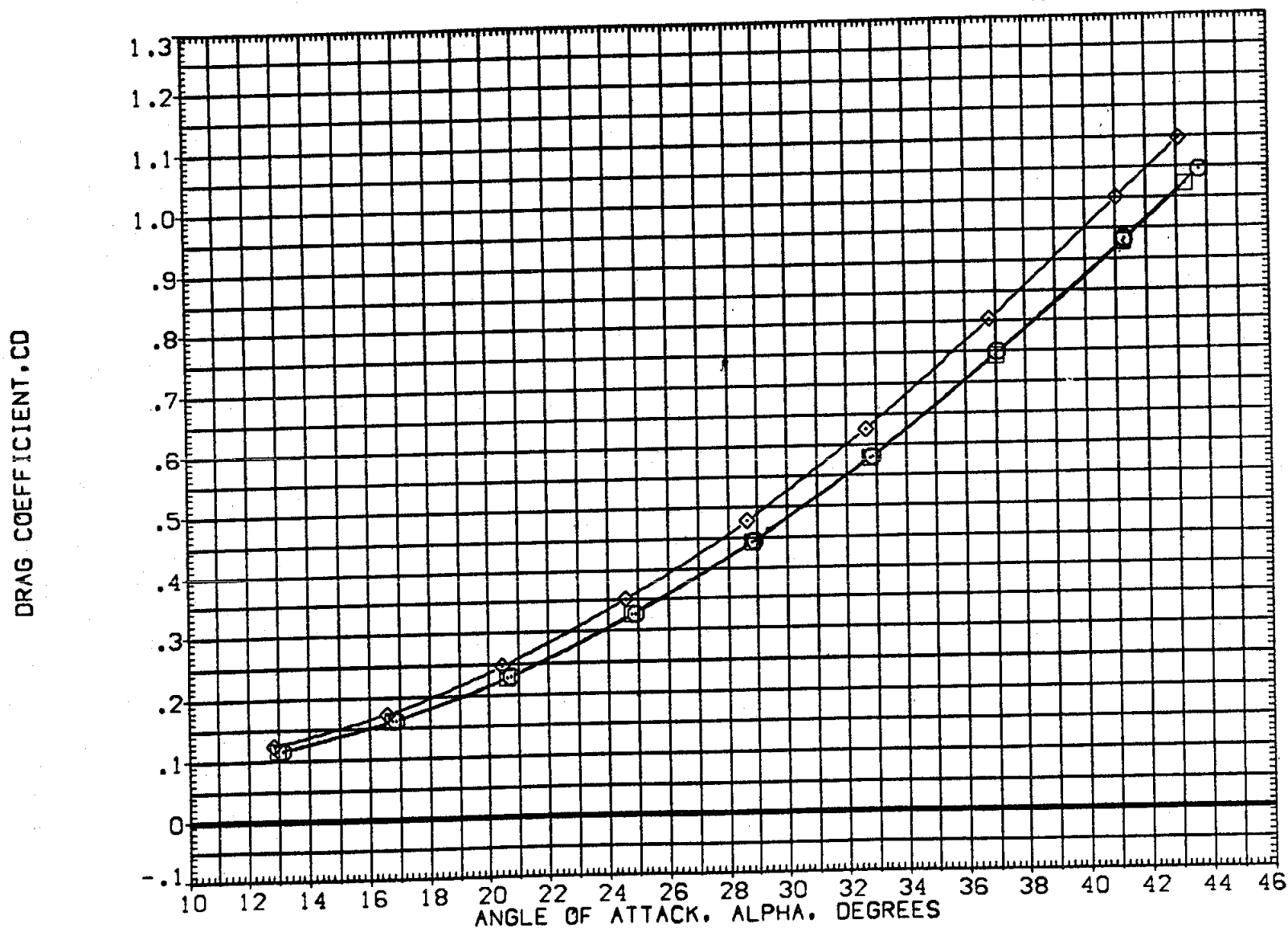


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.
(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16) ○	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO12) □	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO14) ◇	DATA NOT AVAILABLE

BOFLAP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	50.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

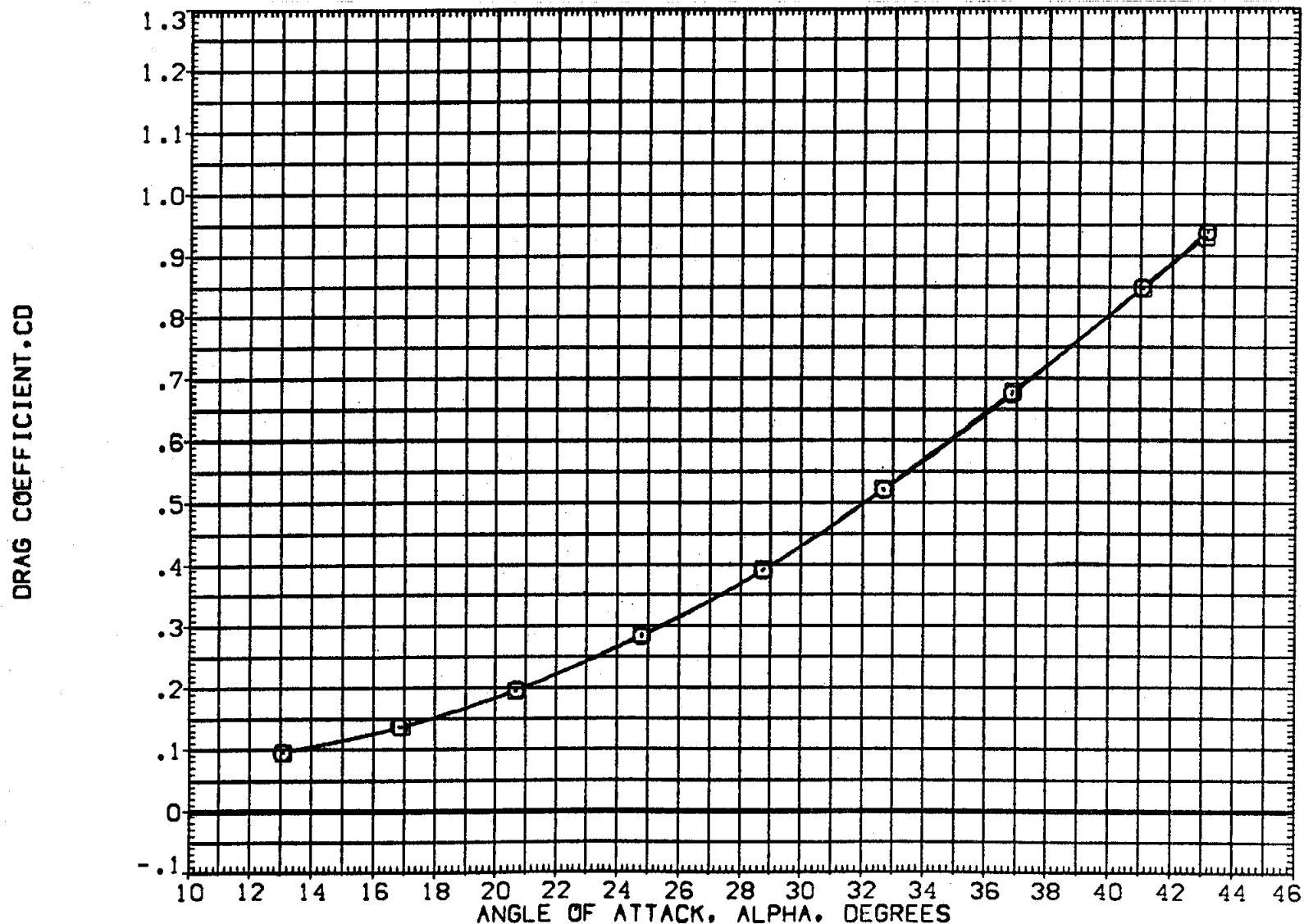


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP016)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	B26 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPDRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

FOREBODY DRAG COEFFICIENT, CDF

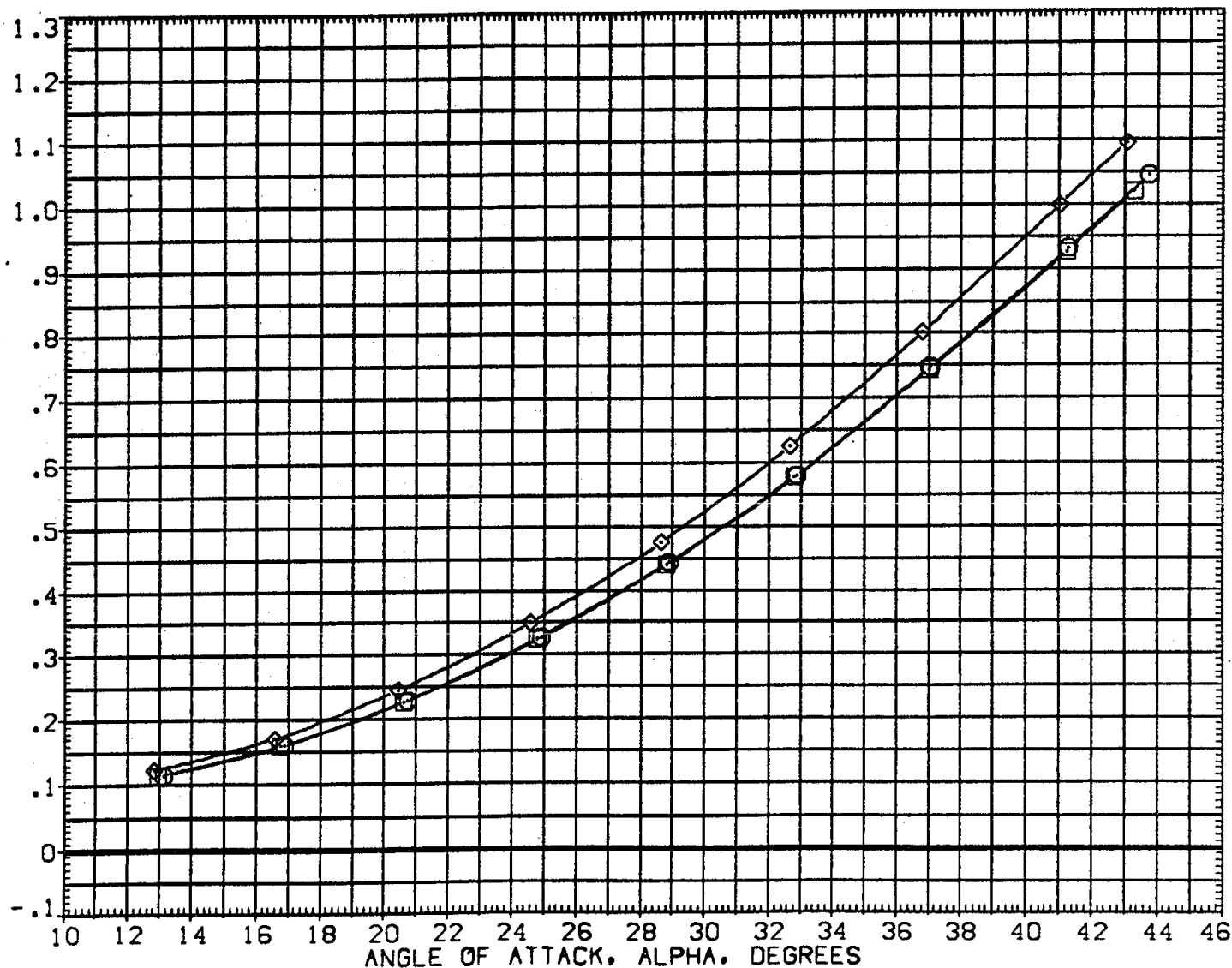


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16)	826 C9 M7 F7 W116 V8 E37 R5
(DEPO12)	826 C9 M7 F7 W116 V8 E37 R5
(DEPO14)	DATA NOT AVAILABLE

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	SO.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY DRAG COEFFICIENT, COF

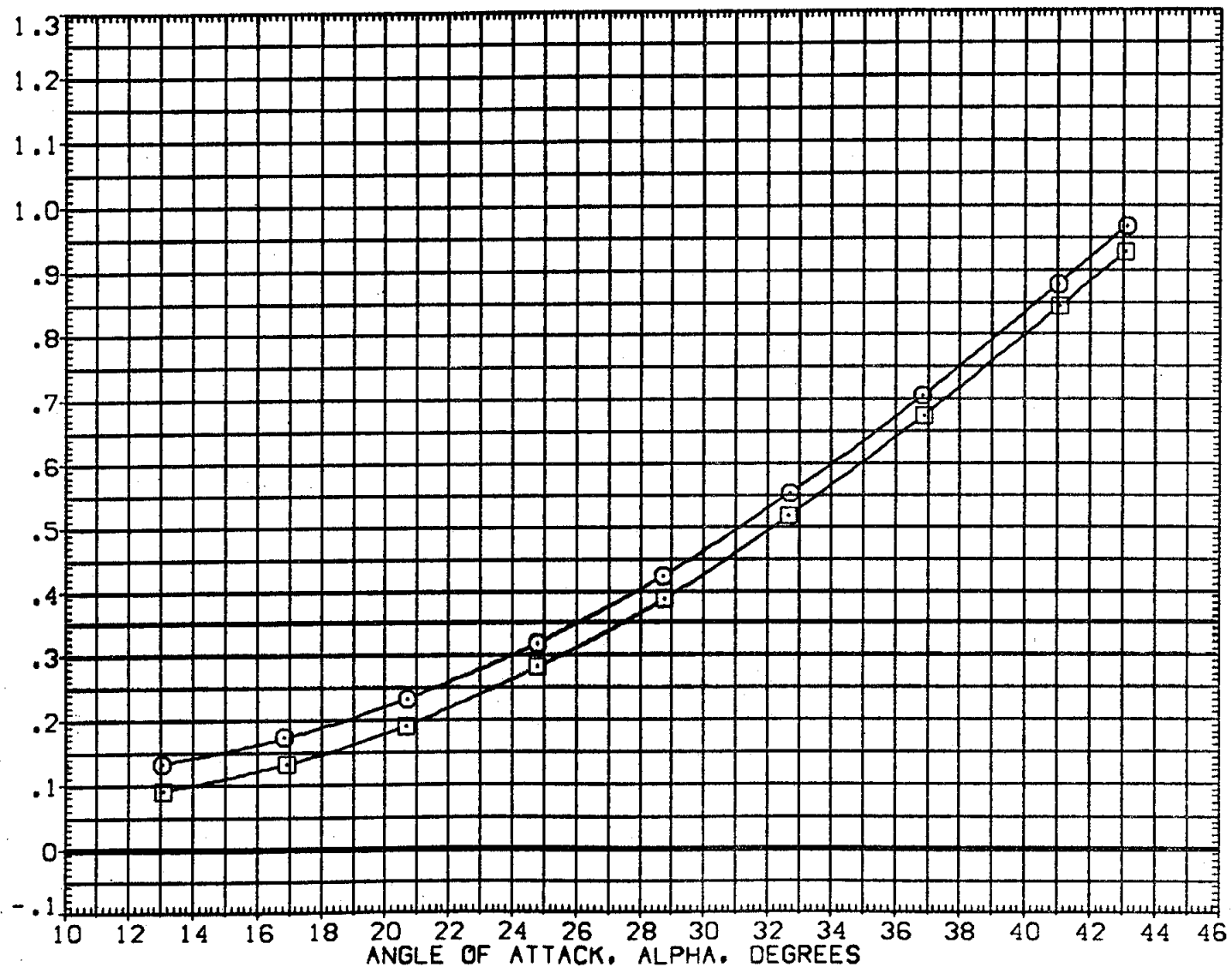


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16)	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO12)	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO14)	B26 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	50.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

AXIAL FORCE COEFFICIENT, CA

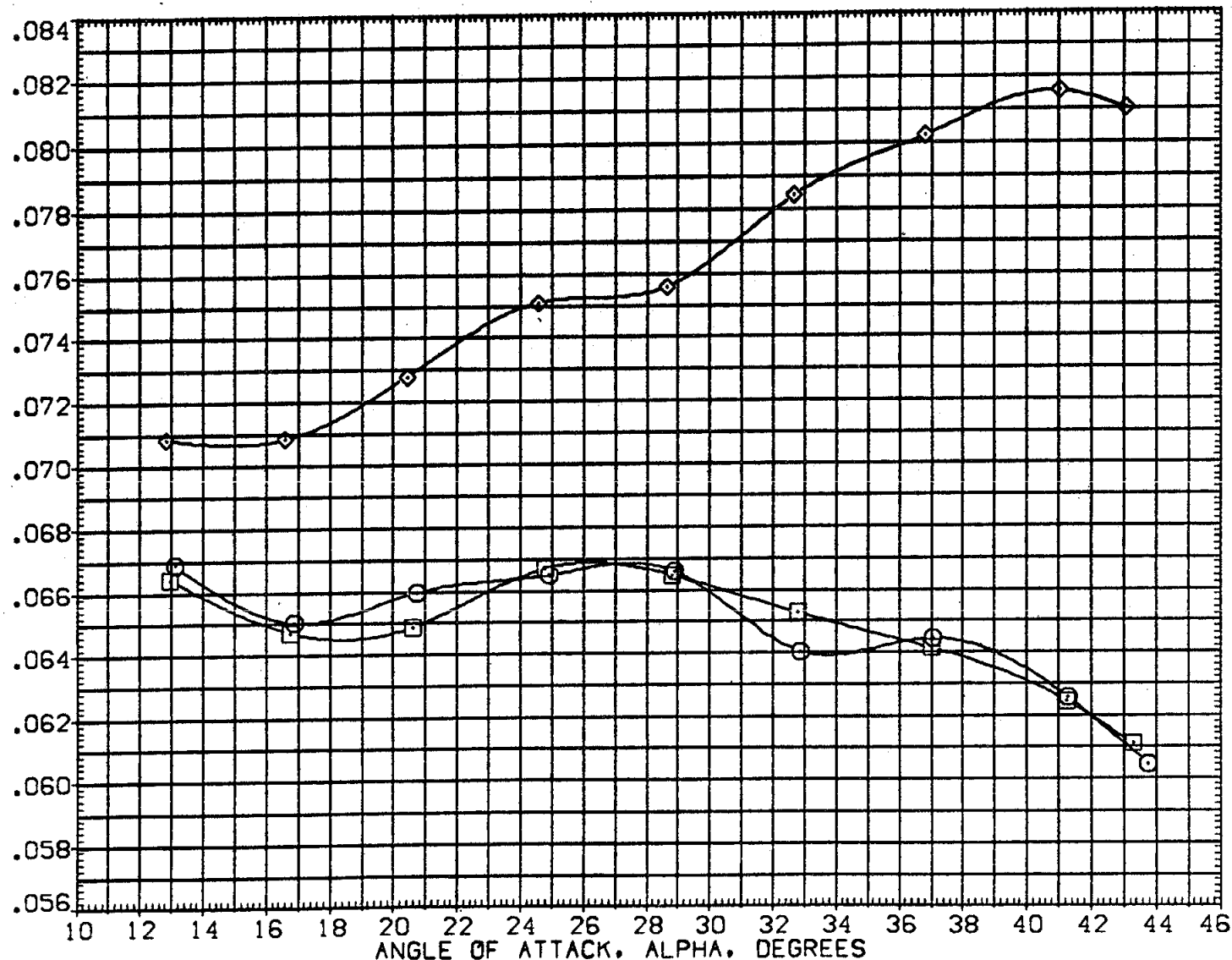


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16) □	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO12) □	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO14) ◇	DATA NOT AVAILABLE

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION
.000	55.000	.000	.000	SREF 2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF 474.8000 IN.
16.300	55.000	.000	.000	BREF 936.7000 IN.
				XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

AXIAL FORCE COEFFICIENT, CA

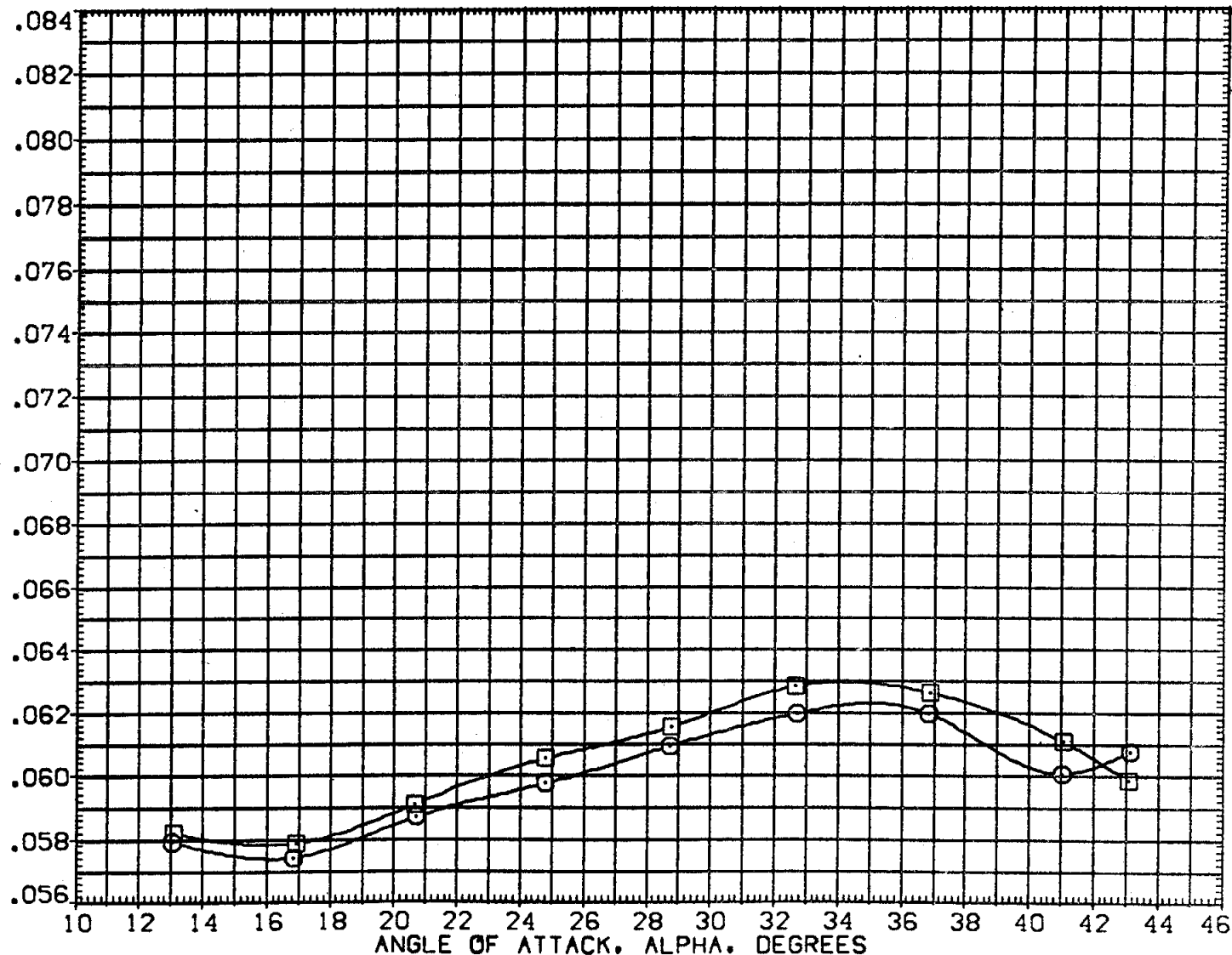


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16)	○	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO12)	□	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO14)	◇	B26 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	50.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

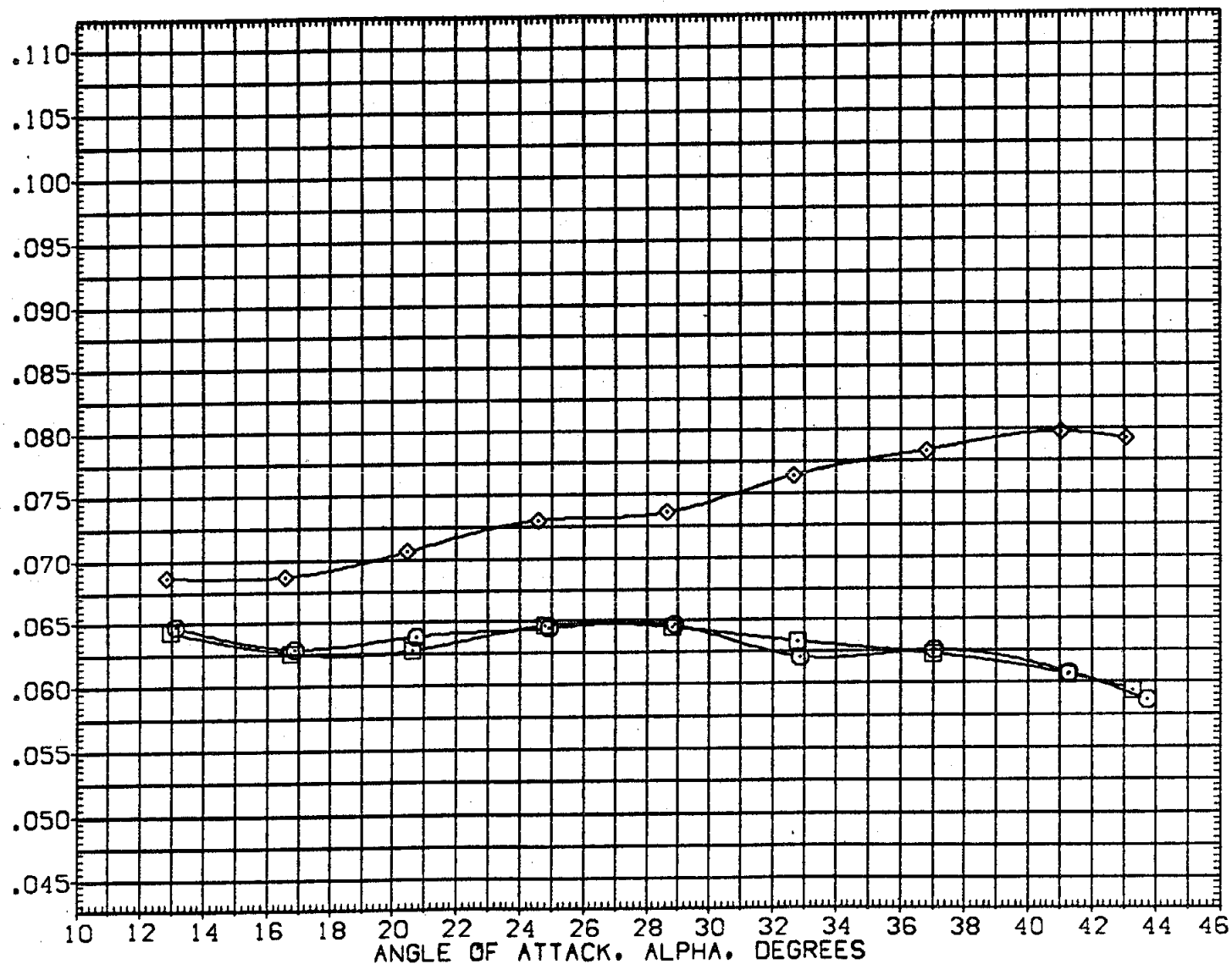


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP016)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE

BDFLAP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	50.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

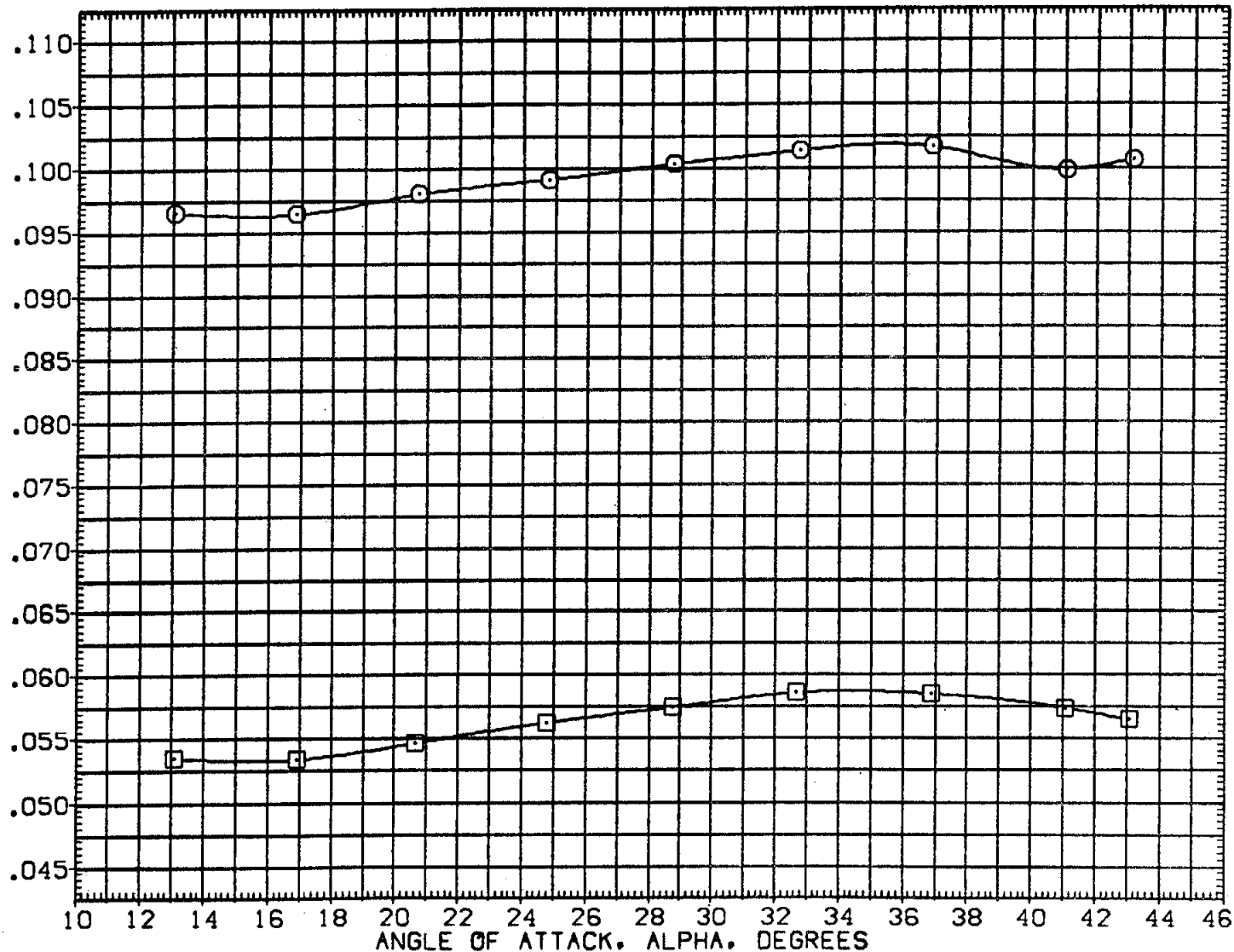


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP016)	○	B26 C9 M7 F7 V116 V8 E37 R5
(DEP012)	□	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	◇	B26 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPOBRK	ELEV-L	ELEV-R
.000	55.000	.000	.000
-11.700	55.000	.000	.000
16.300	55.000	.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

BASE AXIAL FORCE COEFFICIENT, CAB

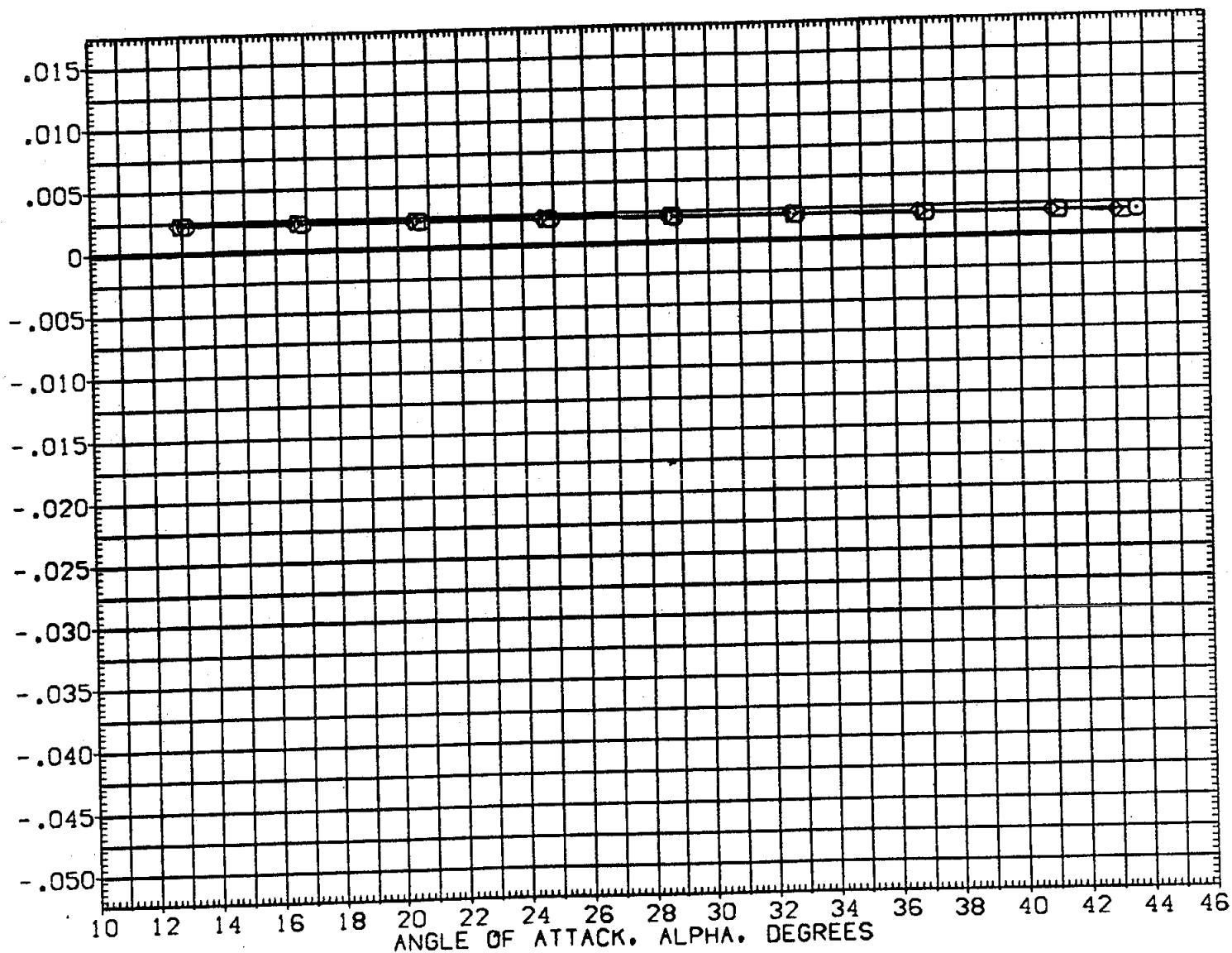


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.
(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
{DEPO16}	□ B26 C9 M7 F7 V116 V8 E37 R5
{DEPO12}	□ B26 C9 M7 F7 V116 V8 E37 R5
{DEPO14}	◇ DATA NOT AVAILABLE

BOFLAP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

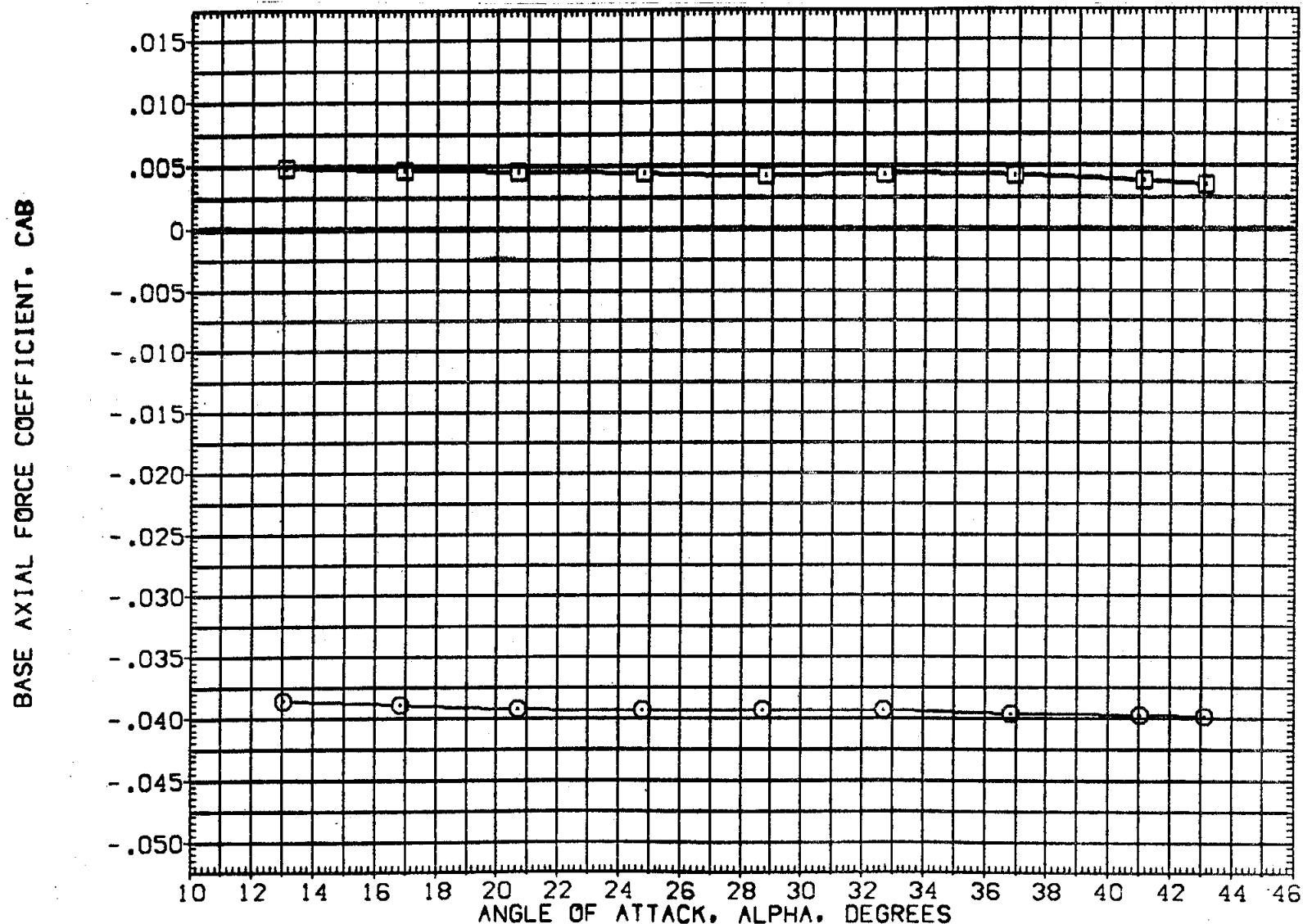


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP016)	826 C9 M7 F7 V116 V8 E37 R5
(DEP012)	826 C9 M7 F7 V116 V8 E37 R5
(DEP014)	826 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

NORMAL FORCE COEFFICIENT, CN

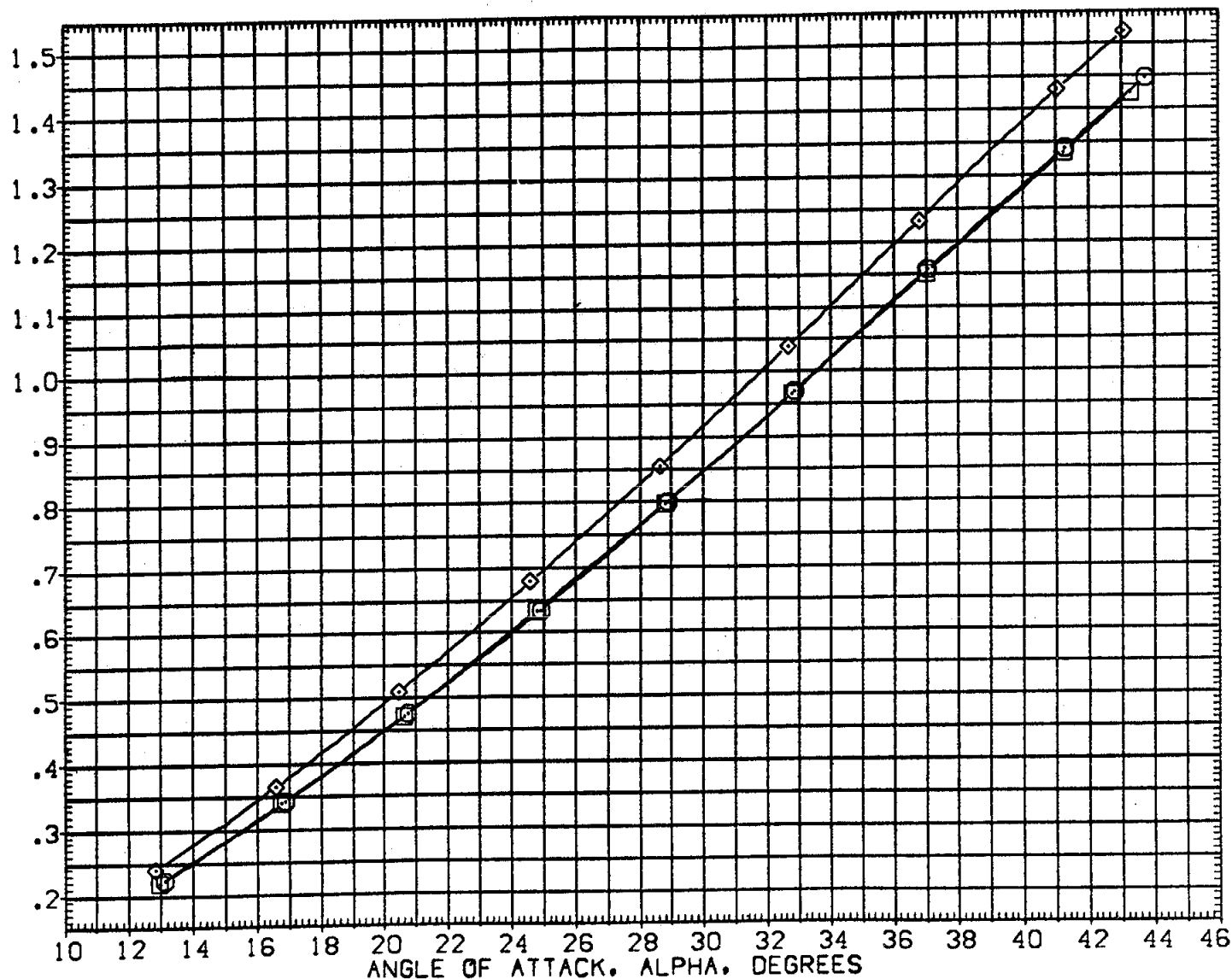


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP016)	826 C9 M7 F7 V116 V8 E37 R5
(DEP012)	826 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

NORMAL FORCE COEFFICIENT, CN

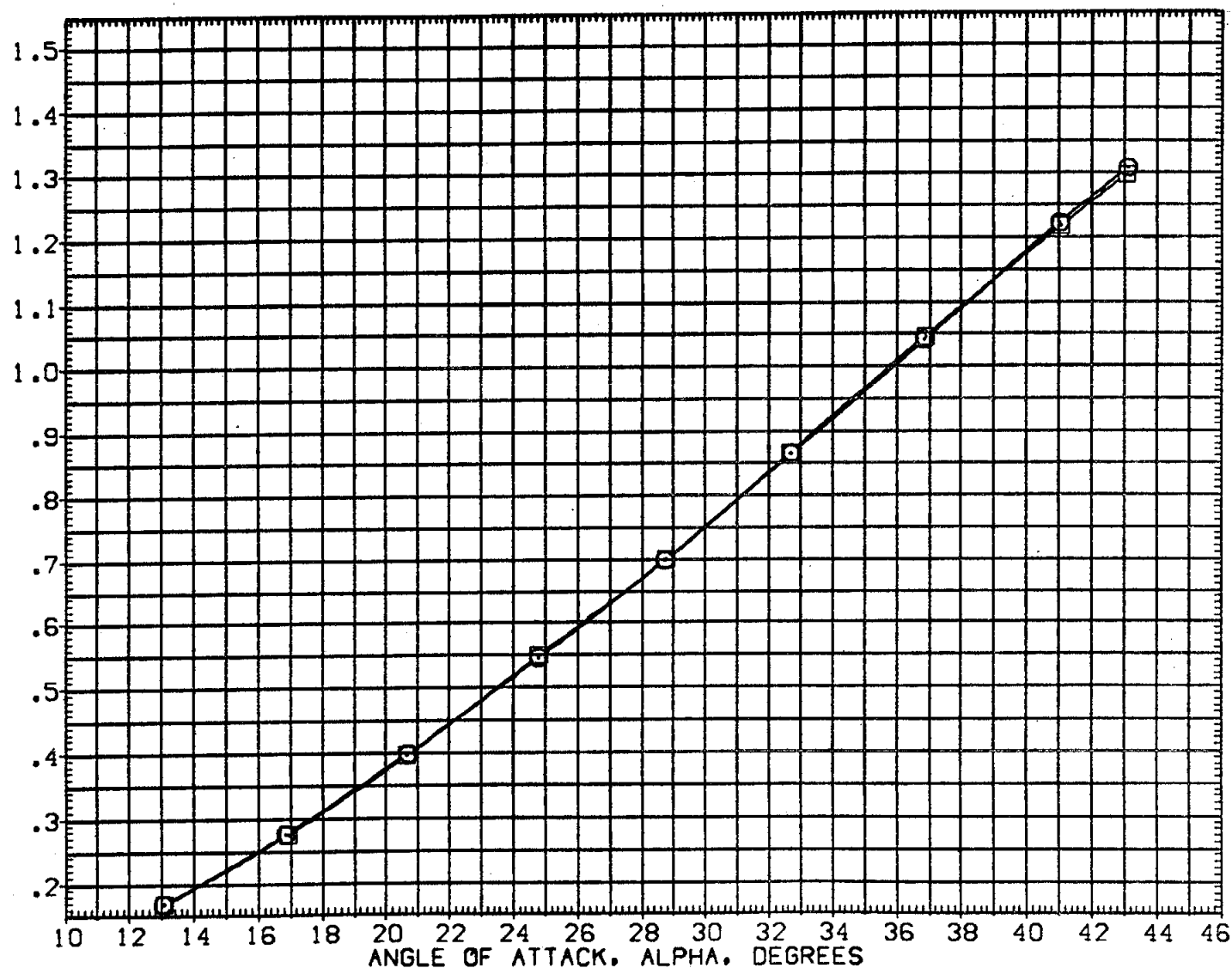


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16)	□	826 C9 M7 F7 V116 V8 E37 R3
(DEPO12)	○	826 C9 M7 F7 V116 V8 E37 R3
(DEPO14)	◇	826 C9 M7 F7 V116 V8 E37 R3

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION
.000	55.000	.000	.000	SREF 2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF 474.8000 IN.
16.300	55.000	.000	.000	BREF 936.7000 IN.
				XMRF 1076.7000 IN.
				YMRF .0000 IN.
				ZMRF 375.0000 IN.
				SCALE .0150

PITCHING MOMENT COEFFICIENT ABOUT FORWARD CG - CLMFWD

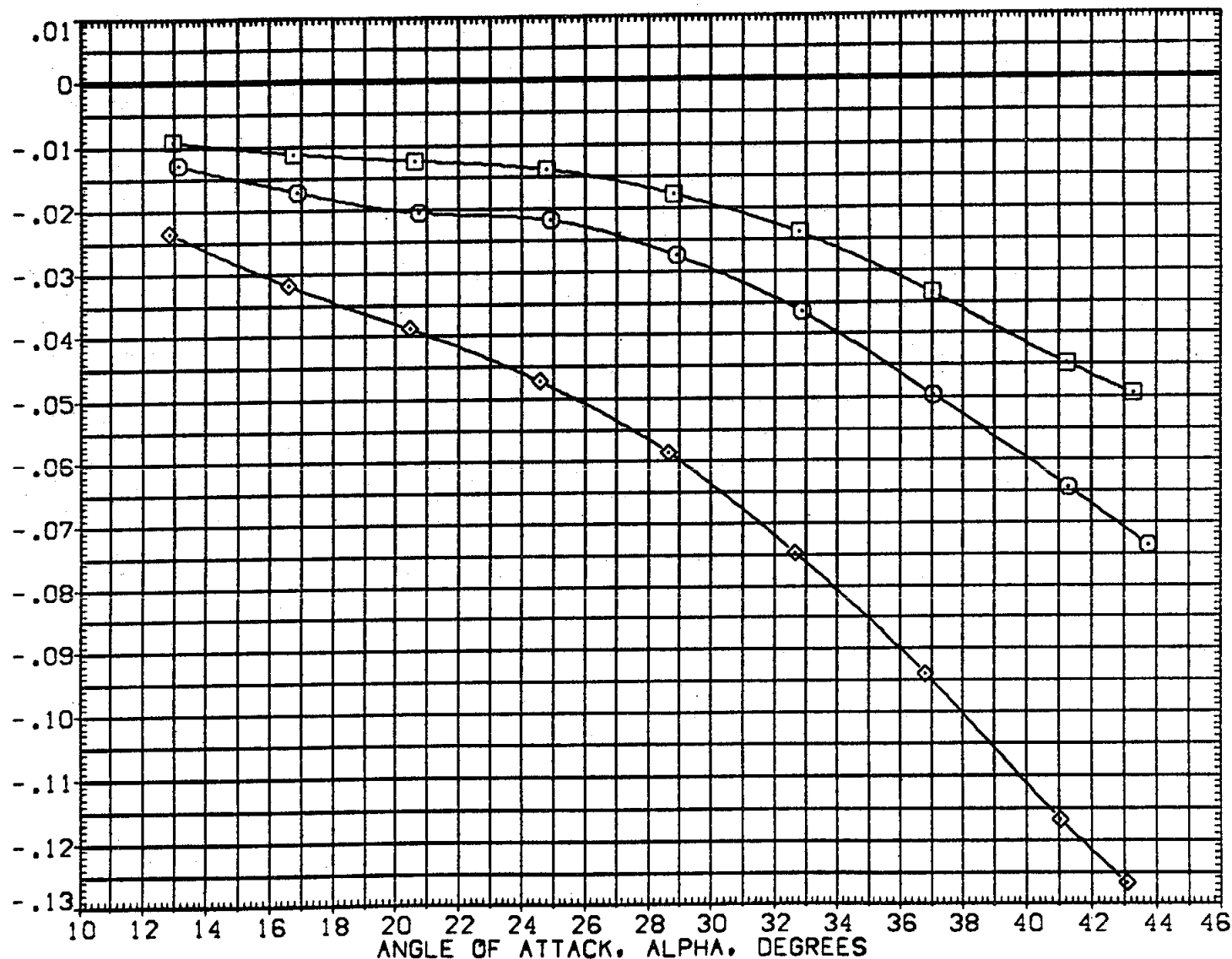


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP016)	B26 C9 M7 F7 V116 V8 E37 R8
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

PITCHING MOMENT COEFFICIENT ABOUT FORWARD CG . CLMFW

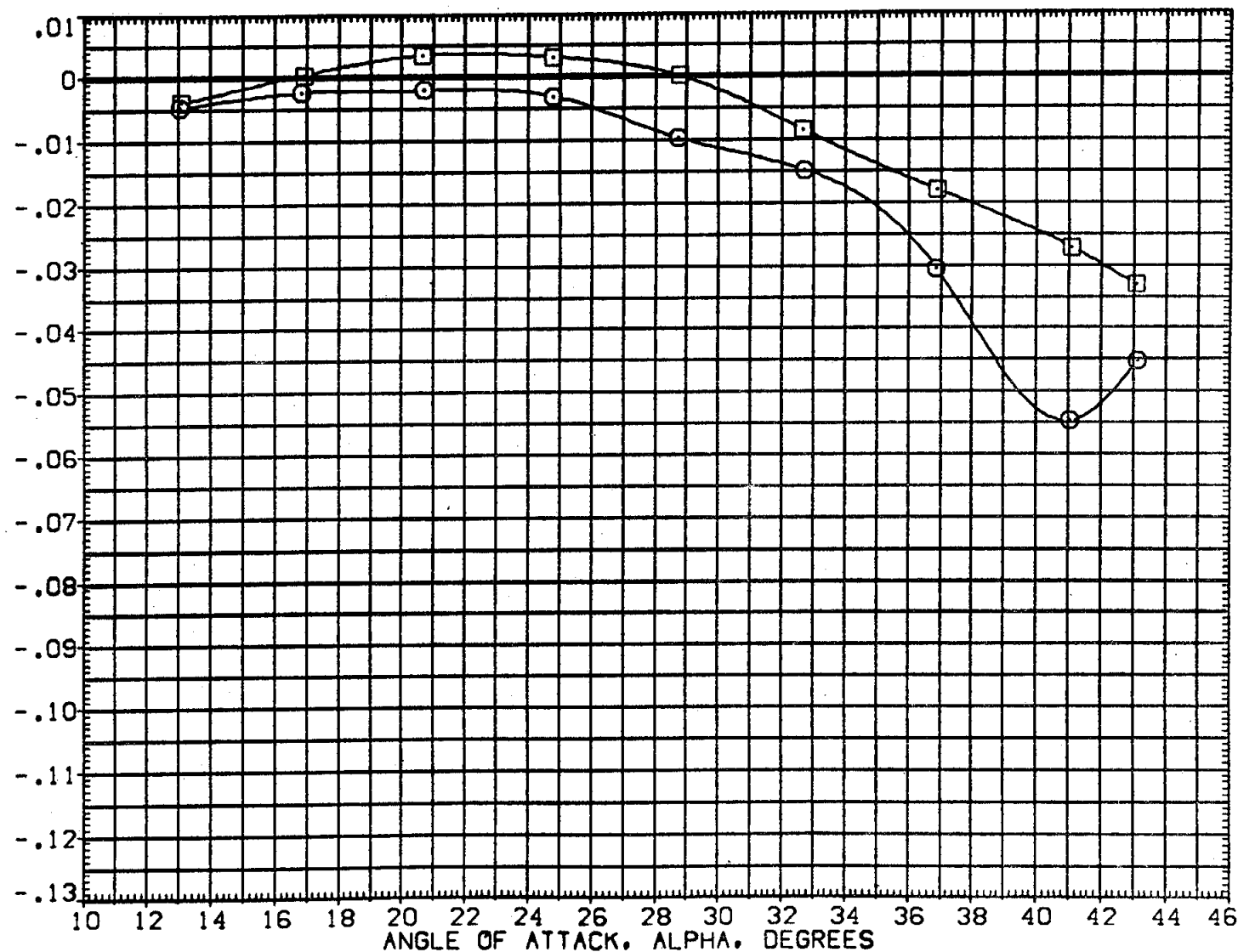


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16) ○	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO12) □	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO14) ◇	B26 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	50.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

PITCHING MOMENT COEFFICIENT ABOUT AFT CG • CLMAFT

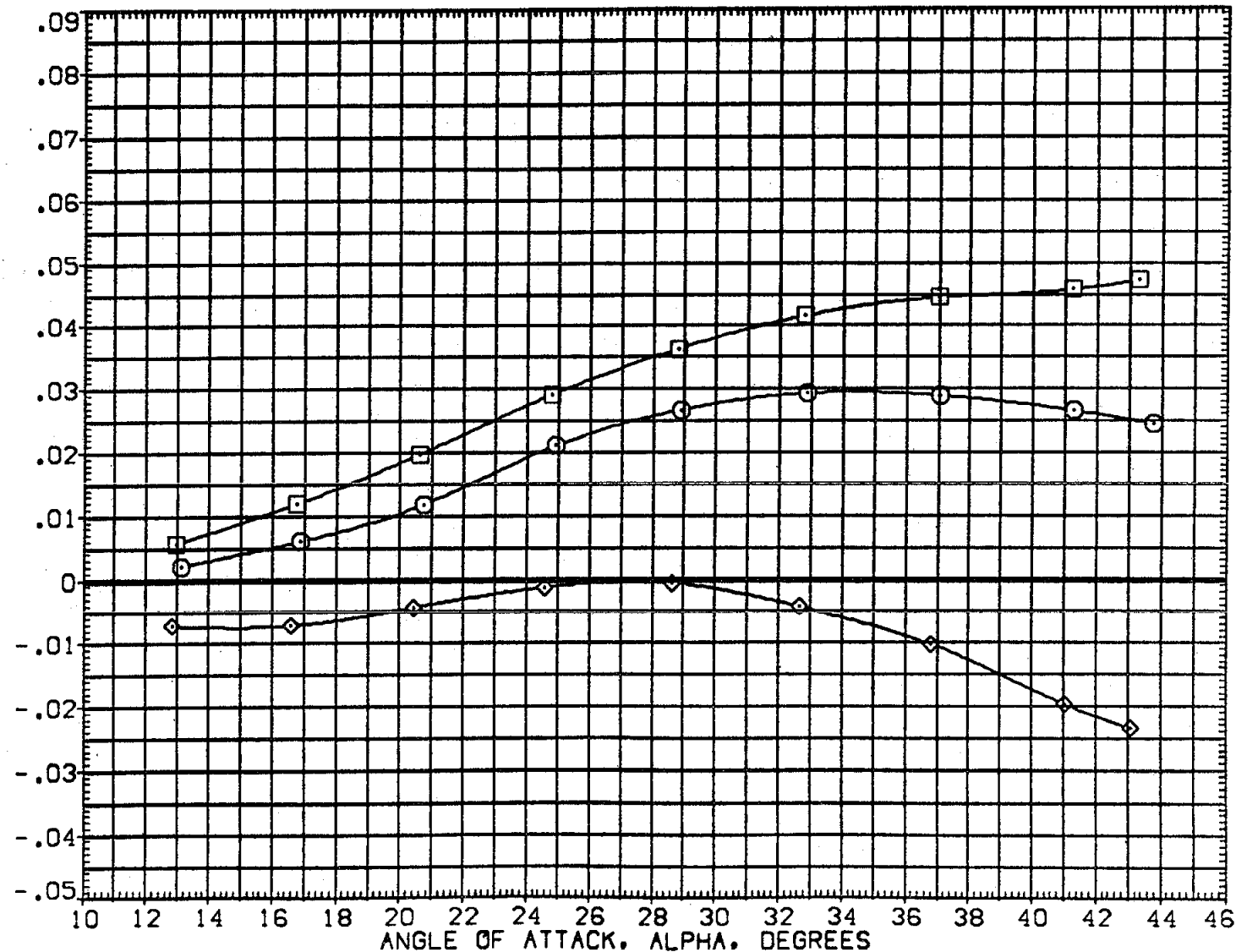


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO12)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO14)	DATA NOT AVAILABLE

BOFLAP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

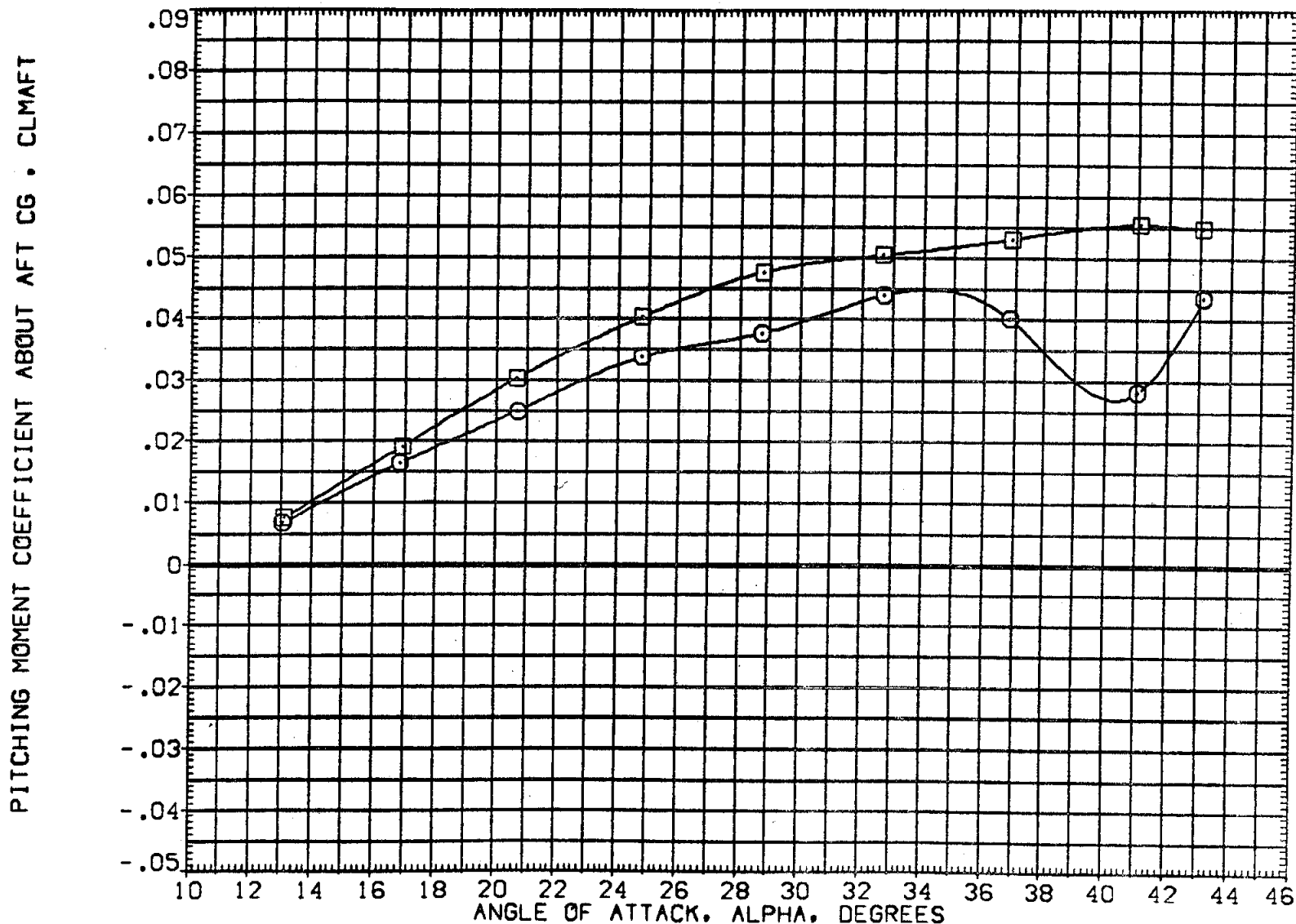


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO16)	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO12)	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO14)	B26 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

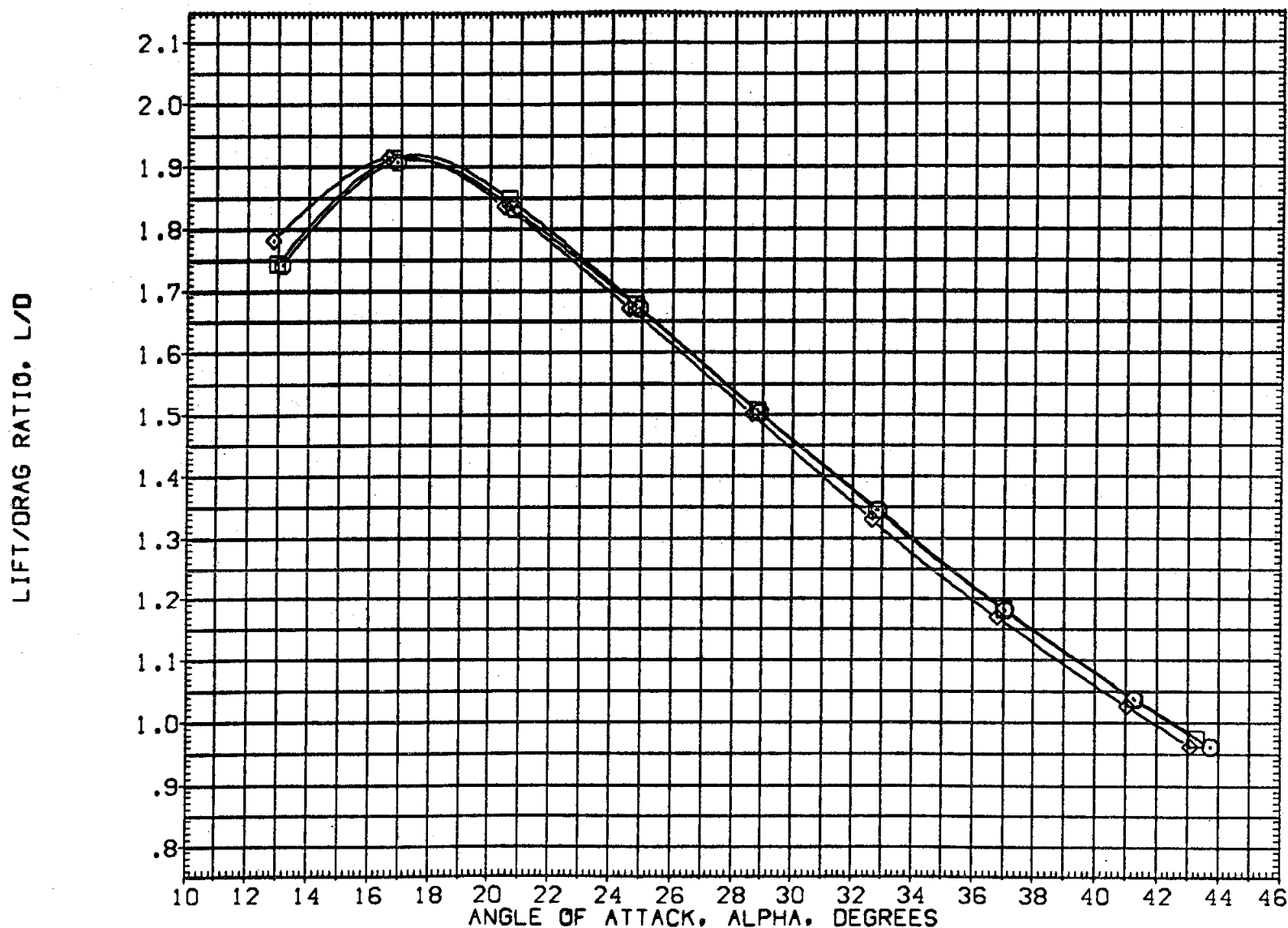


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP016)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	DATA NOT AVAILABLE

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	50.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

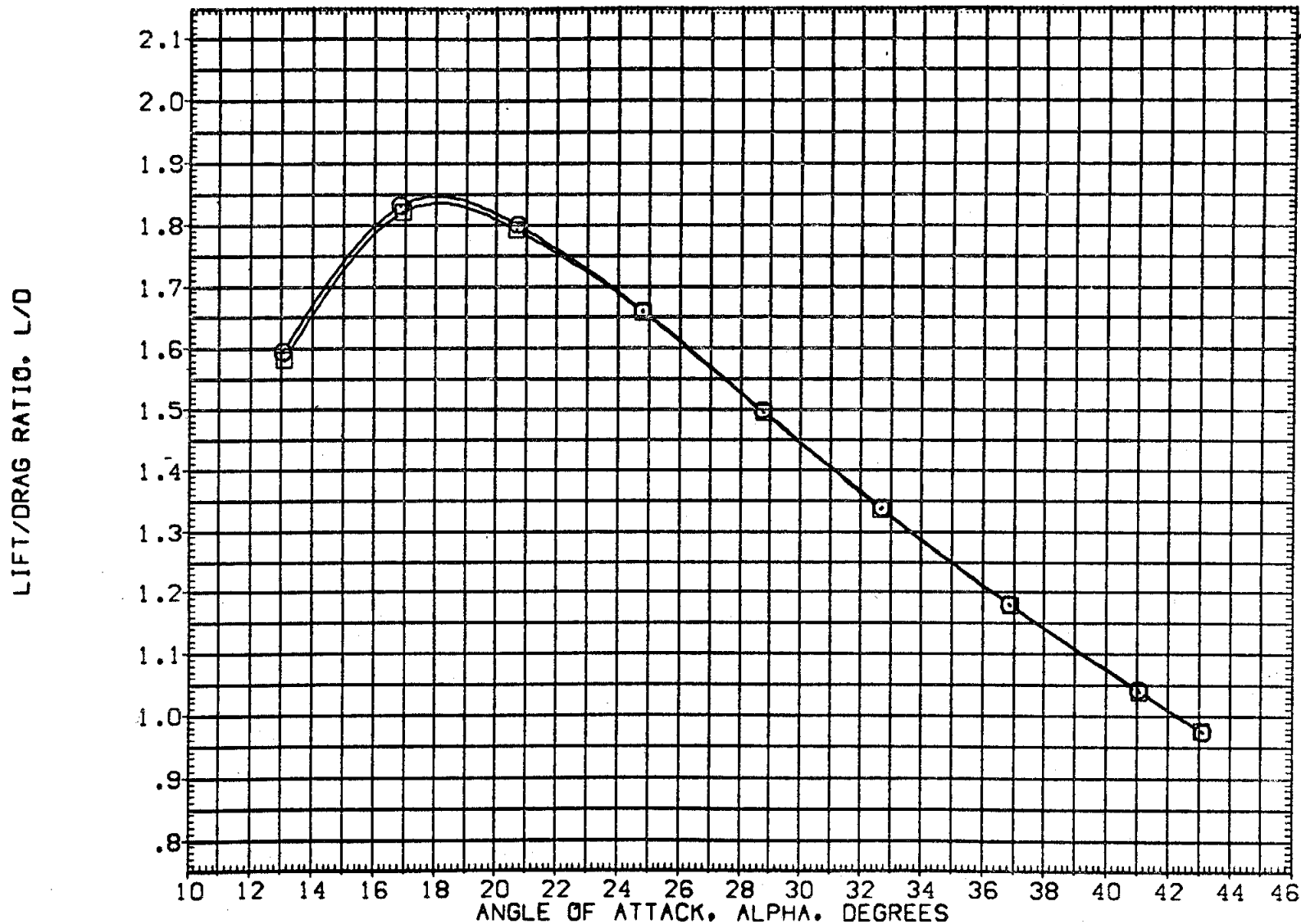


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP016)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP014)	B26 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

NORMAL FORCE COEFFICIENT, CN

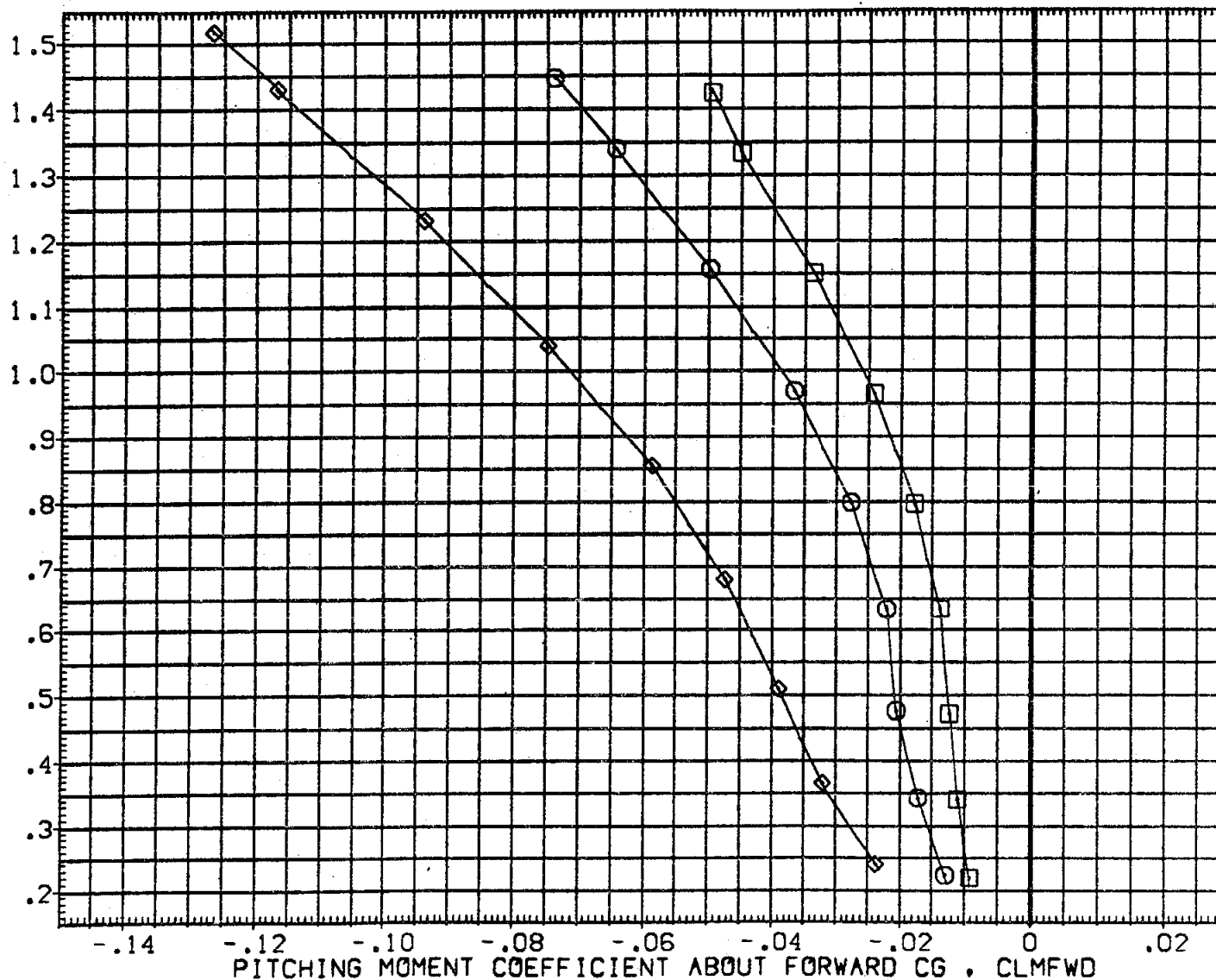


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[DEPO16] ○	B26 C9 M7 F7 W116 V8 E37 R5
[DEPO12] □	B26 C9 M7 F7 W116 V8 E37 R5
[DEPO14] ◇	DATA NOT AVAILABLE

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SO.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

NORMAL FORCE COEFFICIENT, CN

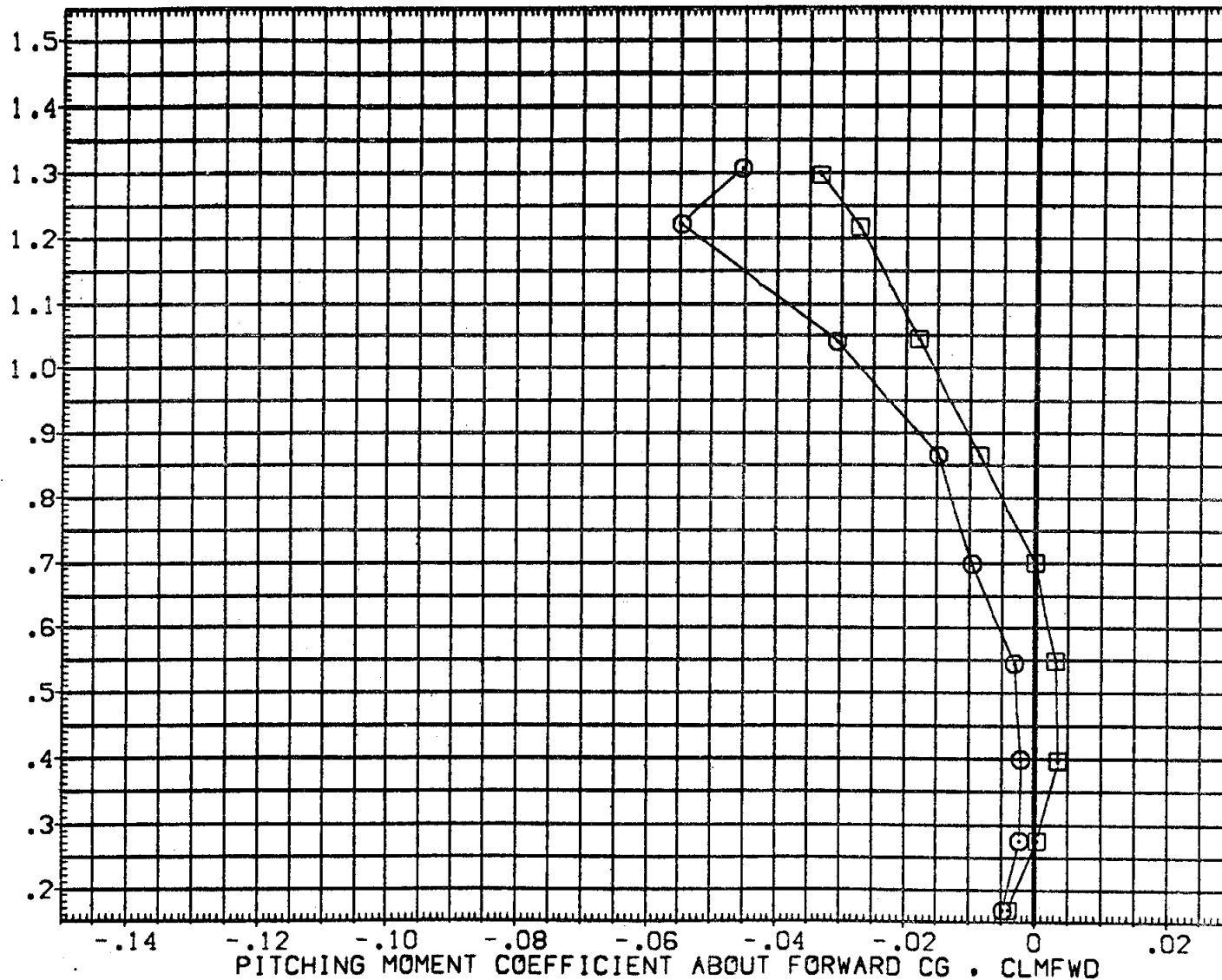


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP016)	826 C9 M7 F7 V116 V8 E37 R5
(DEP012)	826 C9 M7 F7 V116 V8 E37 R5
(DEP014)	826 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPDRBK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

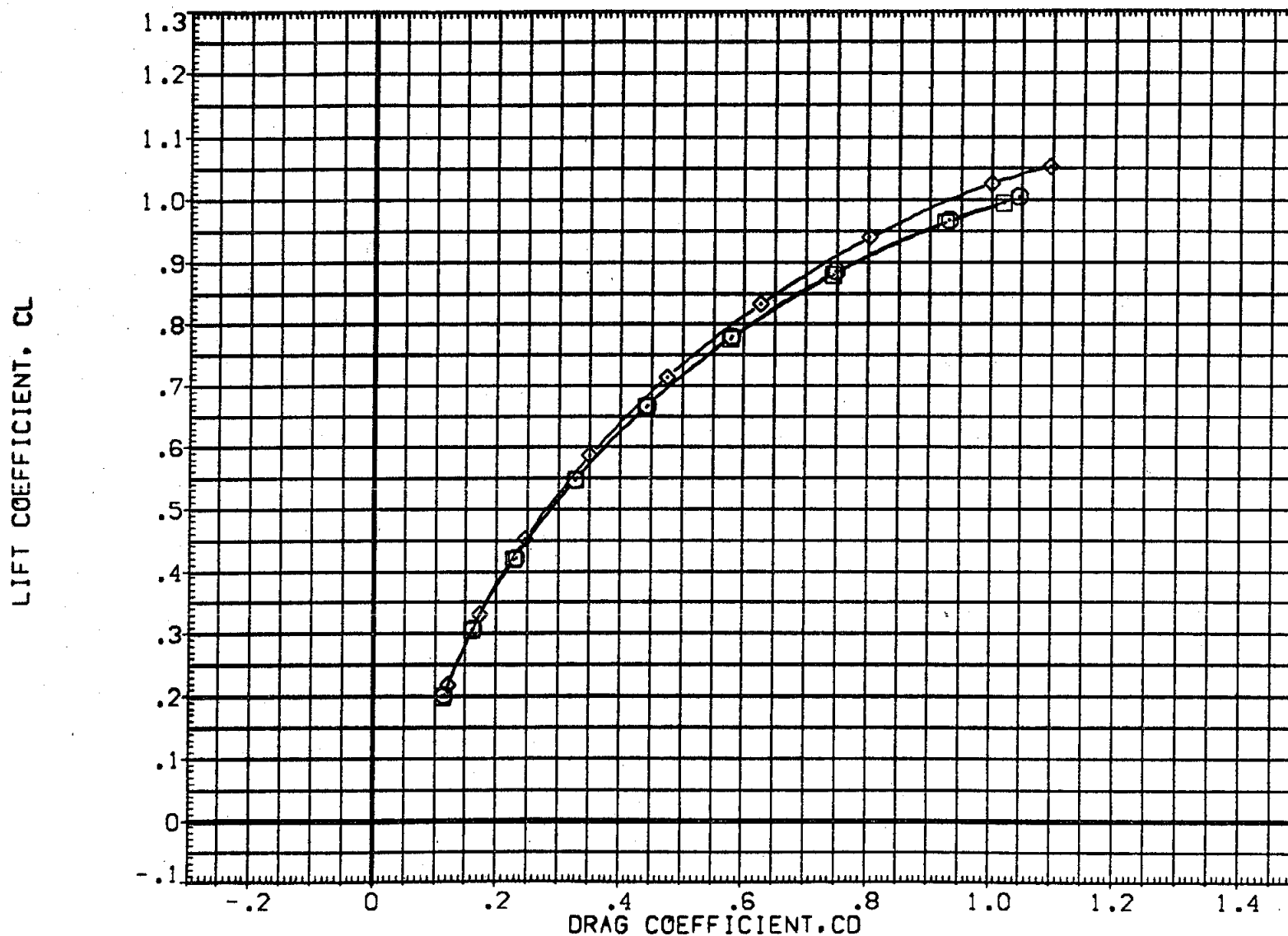


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[DEP016] □	B26 C9 M7 F7 V116 V8 E37 R5
[DEP012] □	B26 C9 M7 F7 V116 V8 E37 R5
[DEP014] ◇	DATA NOT AVAILABLE

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
.000	55.000	.000	.000	SREF	2690.0000	SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000	IN.
16.300	55.000	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

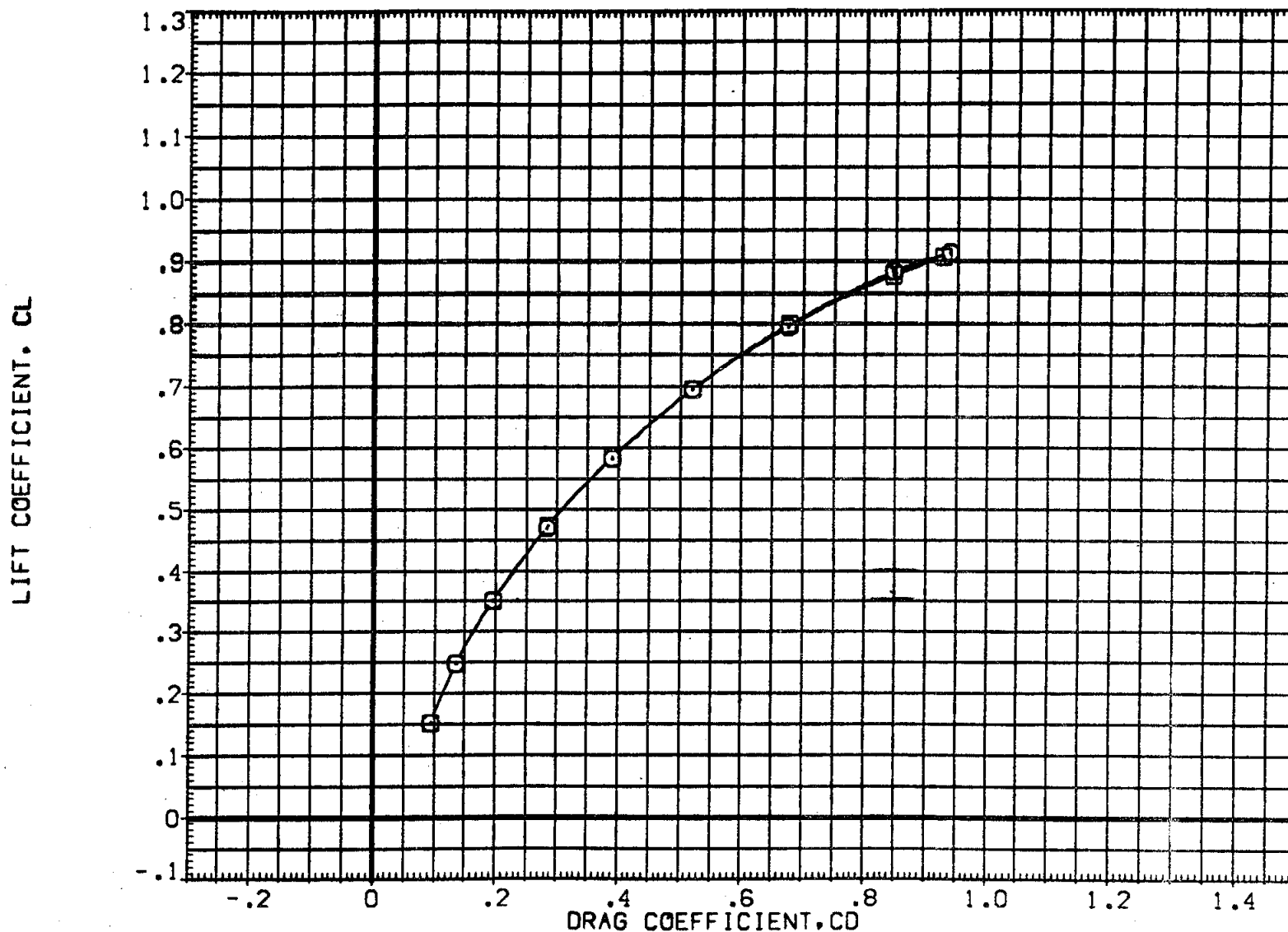


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP016)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP014)	B26 C9 M7 F7 V116 V8 E37 R5

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION
.000	55.000	.000	.000	SREF 2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF 474.8000 IN.
16.300	55.000	.000	.000	BREF 936.7000 IN.
				XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

LONGITUDINAL CENTER OF PRESSURE LOCATION, XCP/L(PERCENT OF BODY LENGTH)

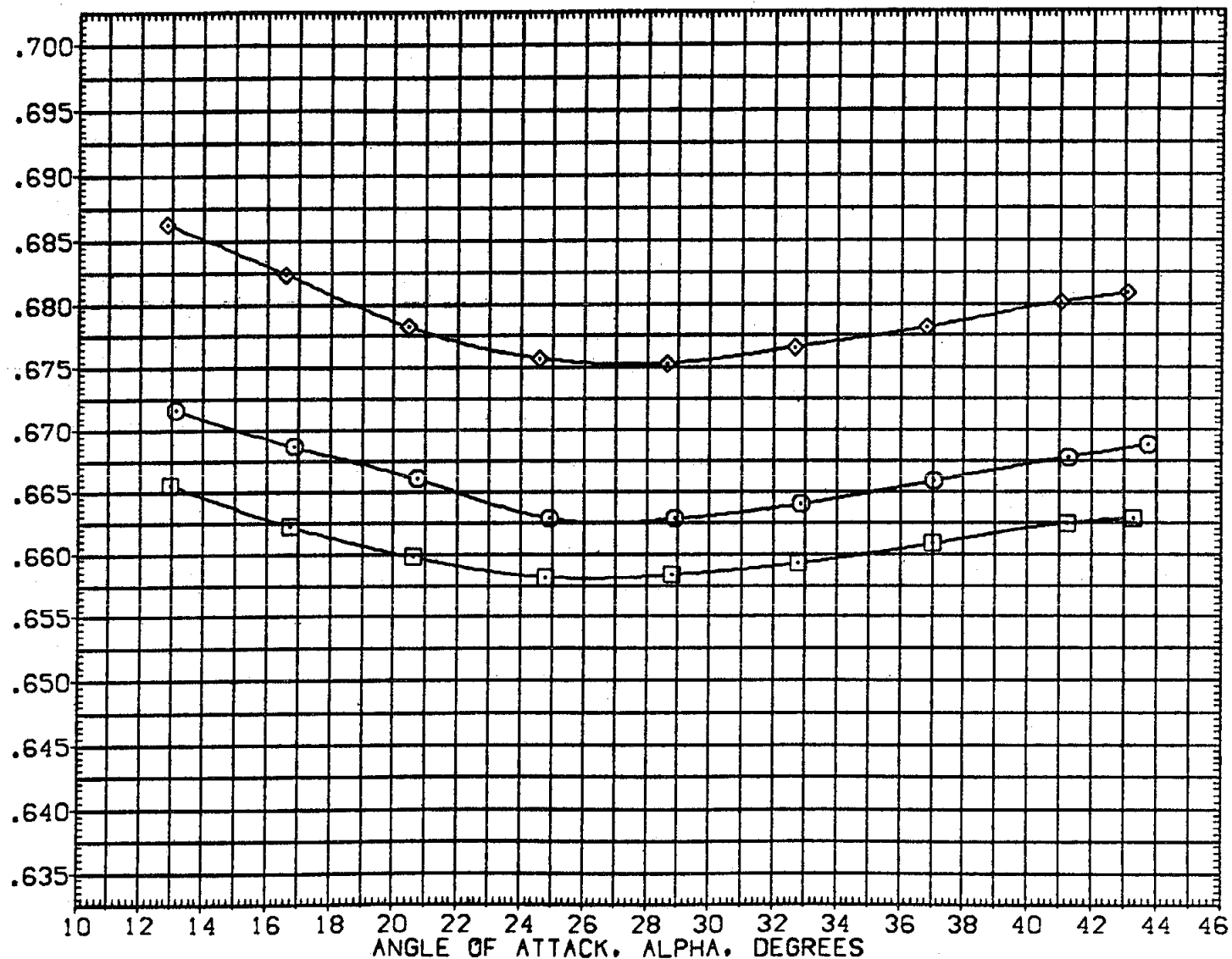


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP016)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP014)	DATA NOT AVAILABLE

BOFLAP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
.000	55.000	.000	.000	SREF	2690.0000 SQ.FT.
-11.700	55.000	.000	.000	LREF	474.8000 IN.
16.300	55.000	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

LONGITUDINAL CENTER OF PRESSURE LOCATION, XCP/L (PERCENT OF BODY LENGTH)

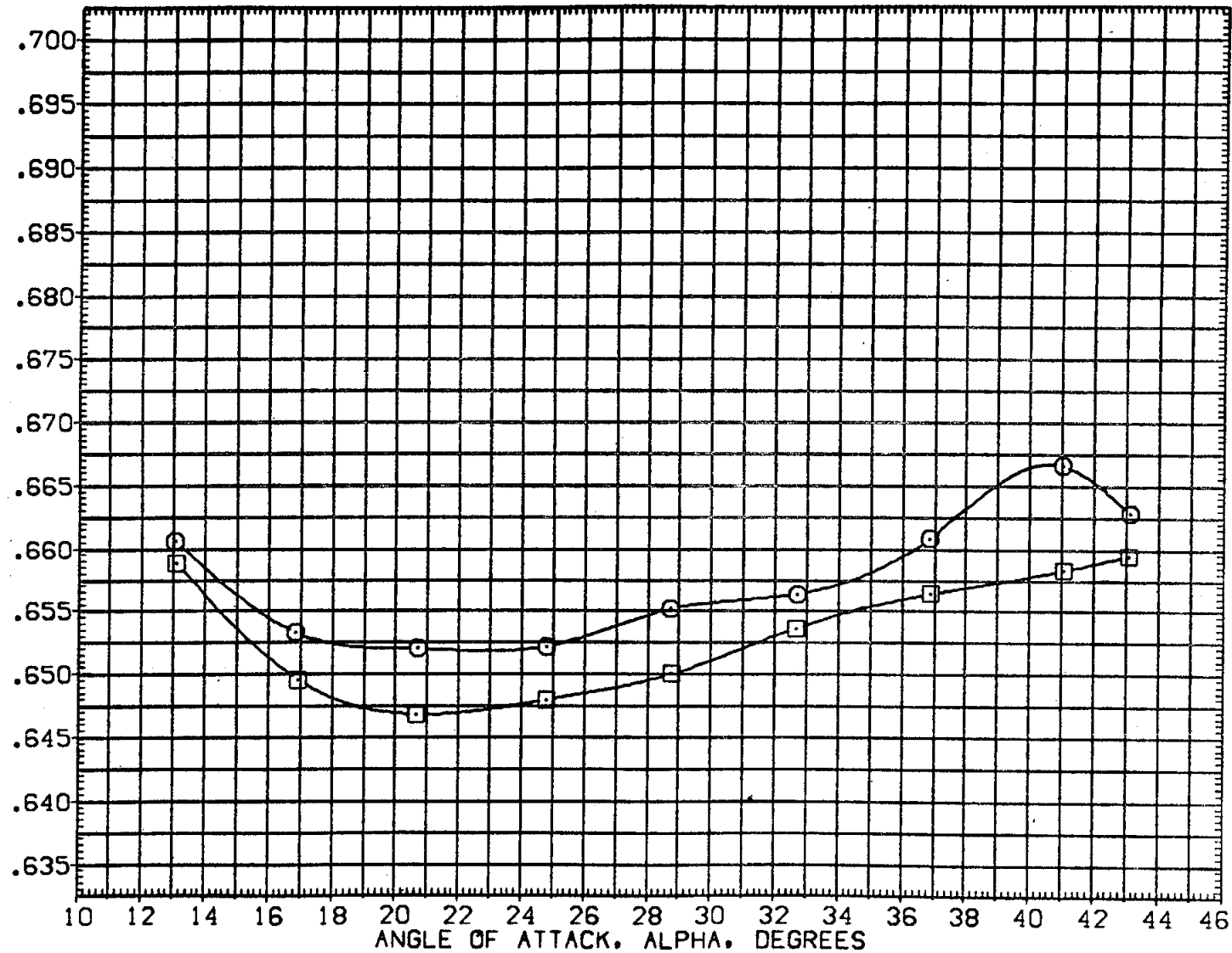


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO12)	B26 C9 M7 F7 V116 V8 E37 R5
(GEPO14)	B26 C9 M7 F7 V116 V8 E37 R5

DBDFLP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL LIFT COEFFICIENT • DCL

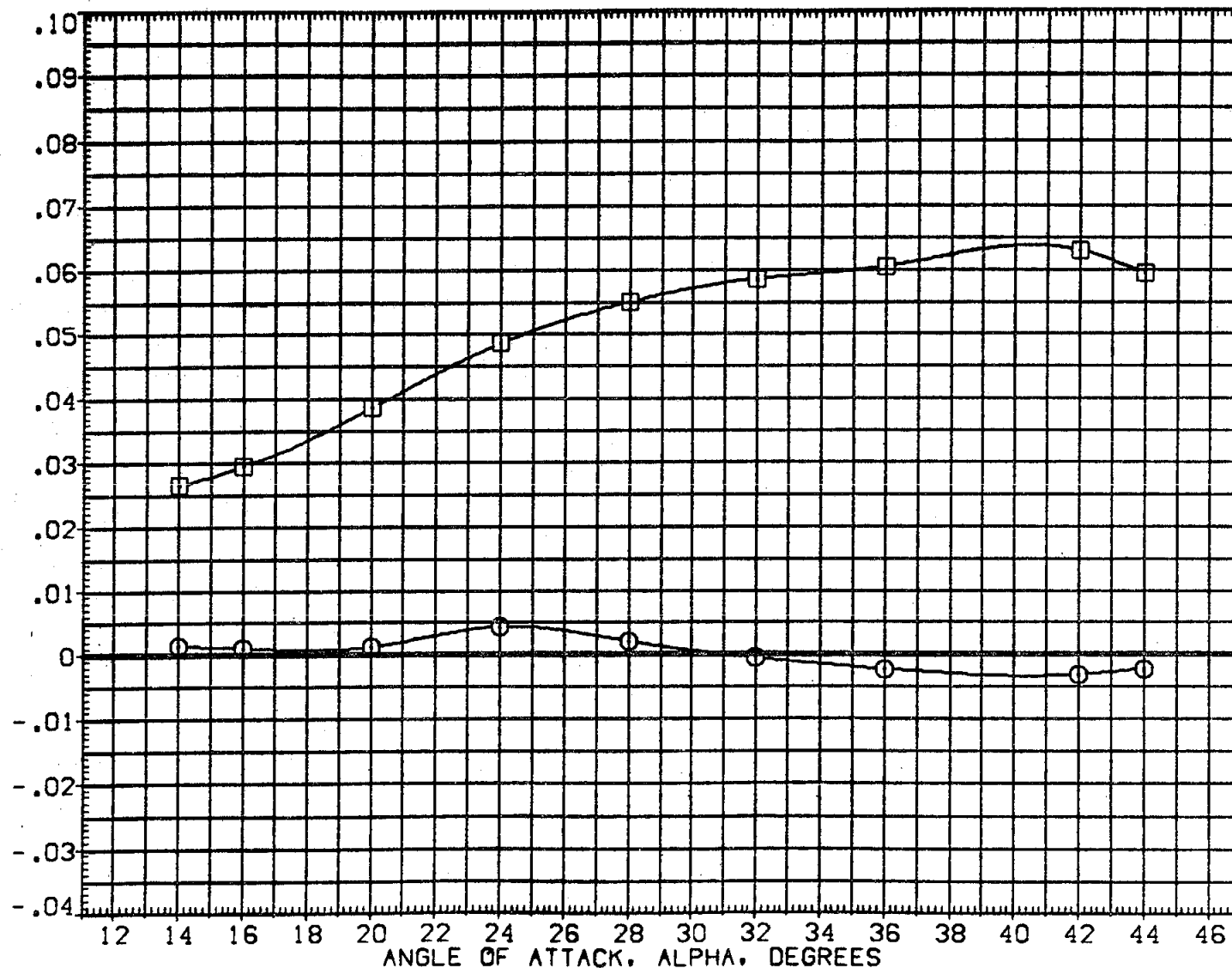


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [GEPO12] ○ 826 C9 M7 F7 V116 V8 E37 R5
 [GEPO14] □ DATA NOT AVAILABLE

DEFLP	SPDRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL LIFT COEFFICIENT • DCL

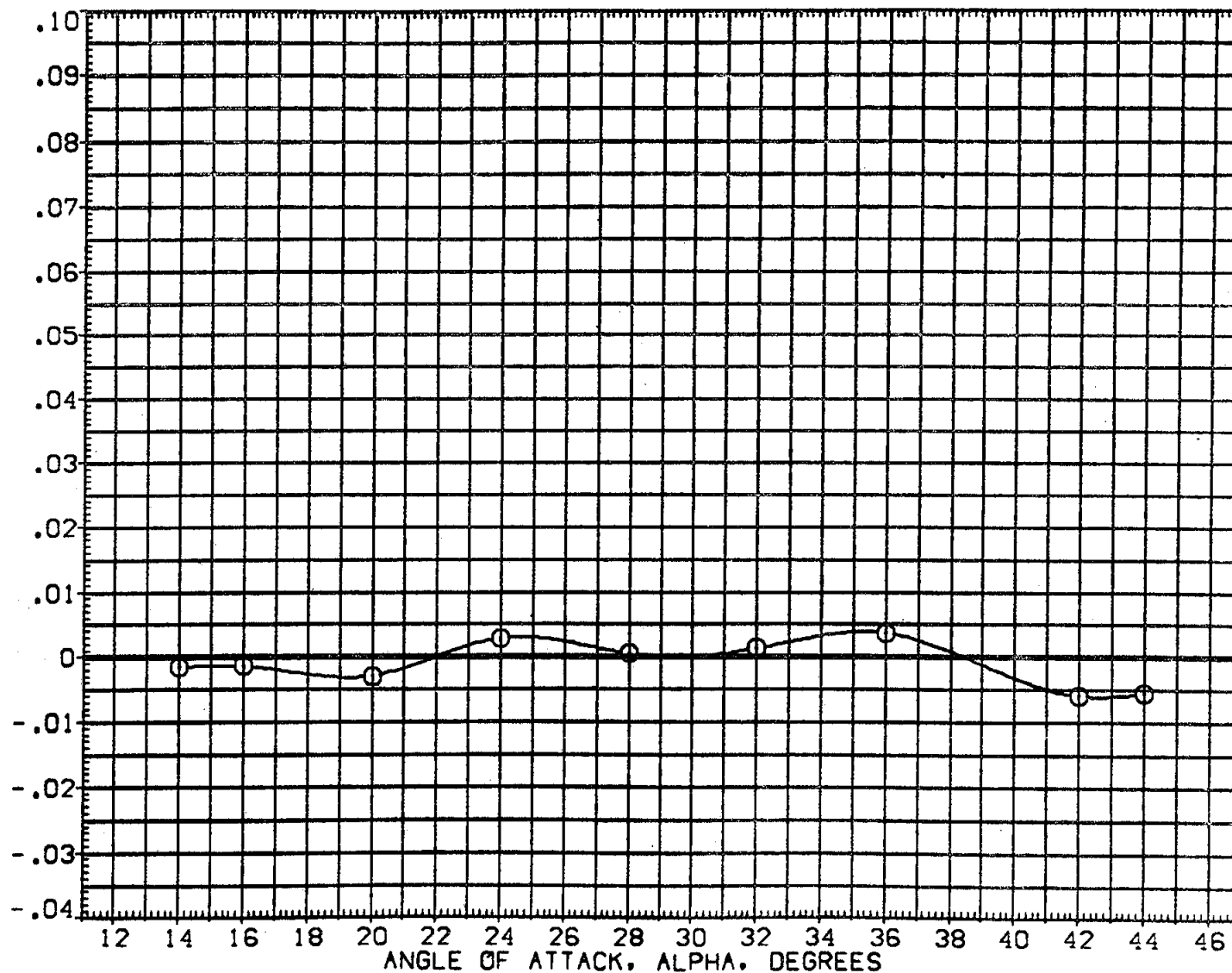


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO12)	B26 C9 M7 F7 V116 V8 E37 R5
(GEPO14)	B26 C9 M7 F7 V116 V8 E37 R5

DBDFLP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL DRAG COEFFICIENT • DCD

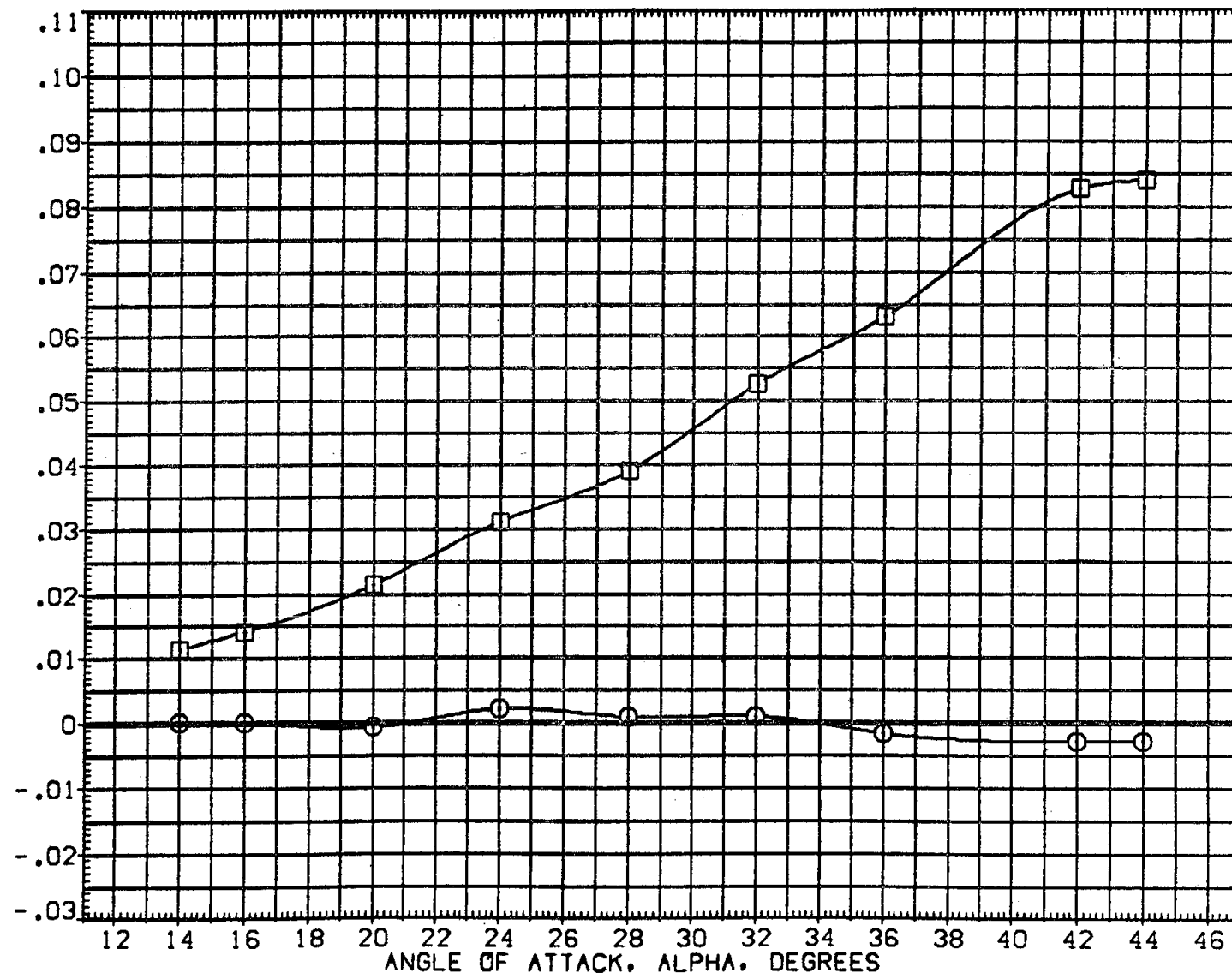


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEPO12) ☐ 826 C9 M7 F7 V116 V8 E37 R5
 (GEPO14) ☐ DATA NOT AVAILABLE

DBDFLP	SPDRBK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL DRAG COEFFICIENT • DCD

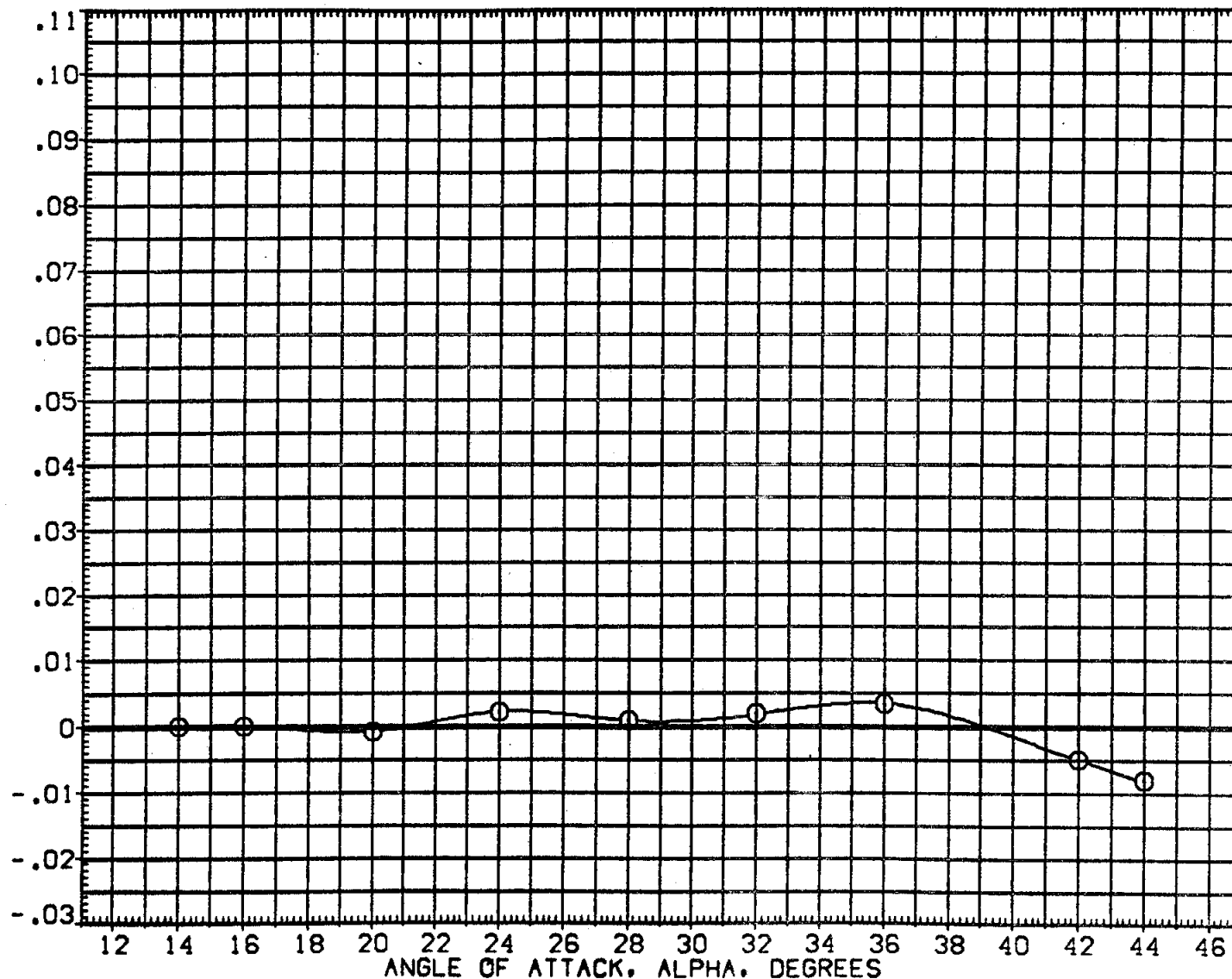


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO12) ○	B26 C9 M7 F7 V116 V8 E37 R5
(GEPO14) □	B26 C9 M7 F7 V116 V8 E37 R5

DBDFLP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRF	1076.7000 IN.
				YMRF	.0000 IN.
				ZMRF	375.0000 IN.
				SCALE	.0150

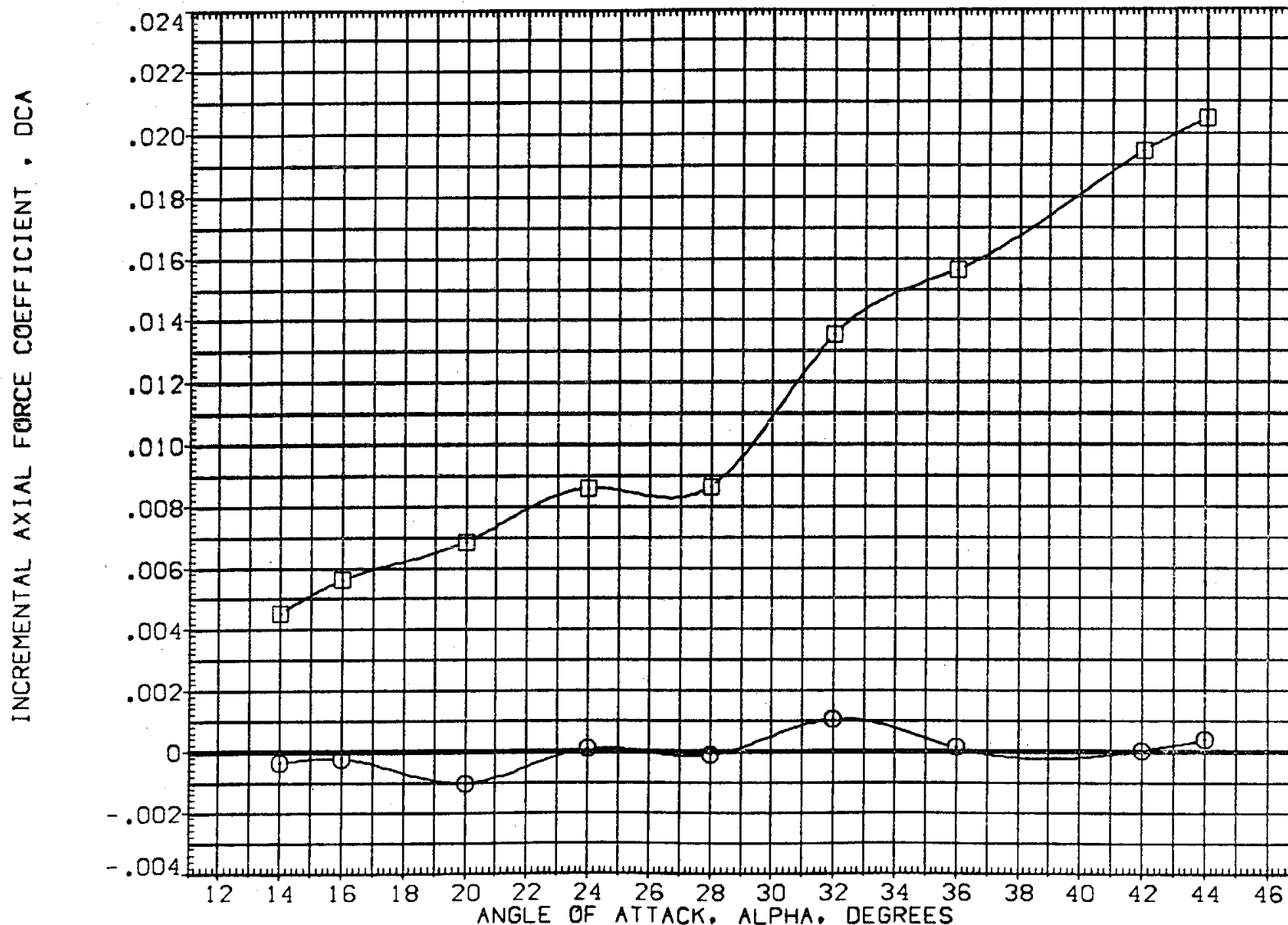


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEPO12) ☐ B26 C9 M7 F7 V116 V8 E37 R5
 (GEPO14) ☐ DATA NOT AVAILABLE

DBDFLP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL AXIAL FORCE COEFFICIENT • DCA

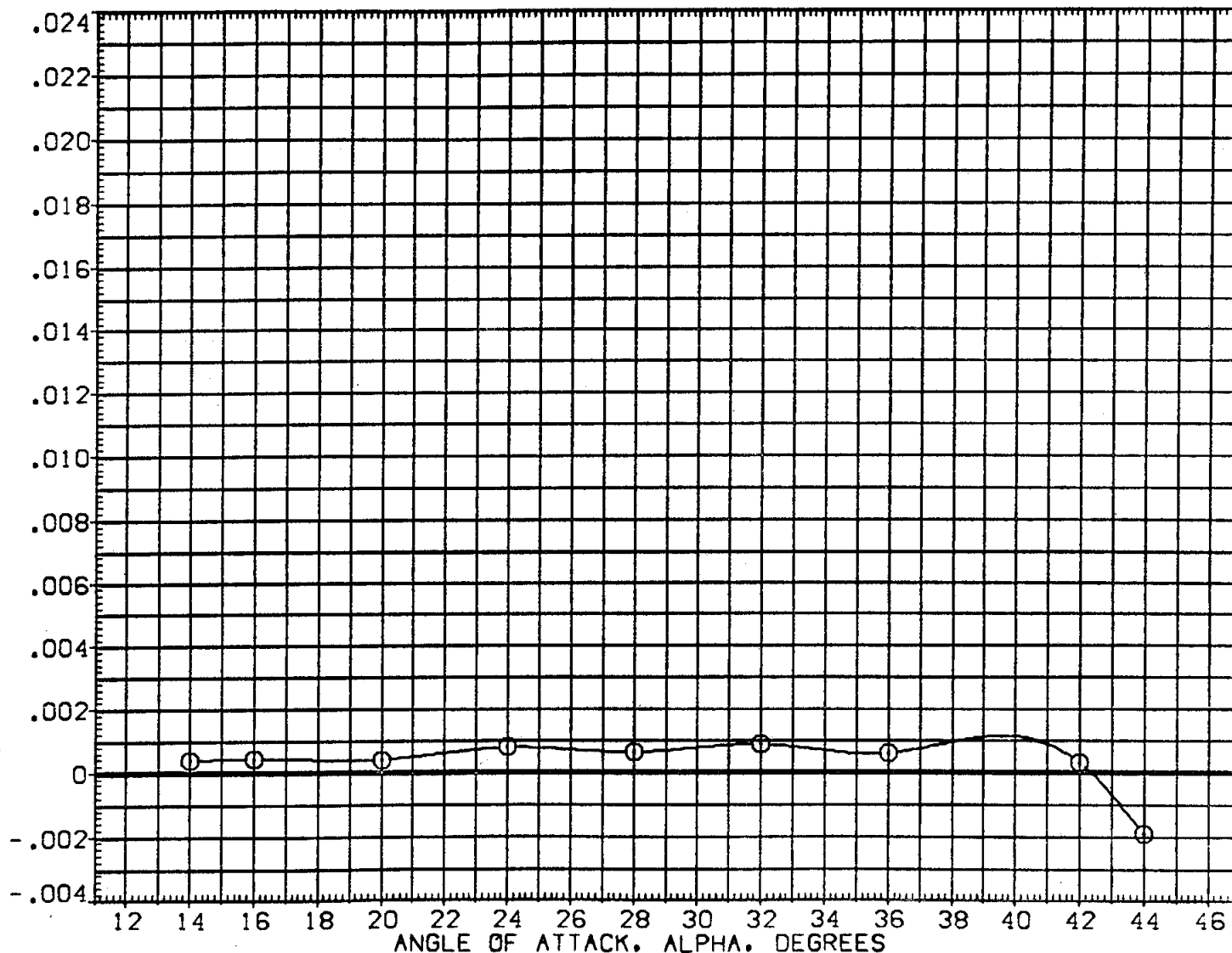


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO12) ○	B26 C9 M7 F7 V116 V8 E37 R5
(GEPO14) □	B26 C9 M7 F7 V116 V8 E37 R5

DBOFLP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION
-11.700	55.000	.000	.000	SREF 2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF 474.8000 IN.
				BREF 936.7000 IN.
				XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT • DCAF

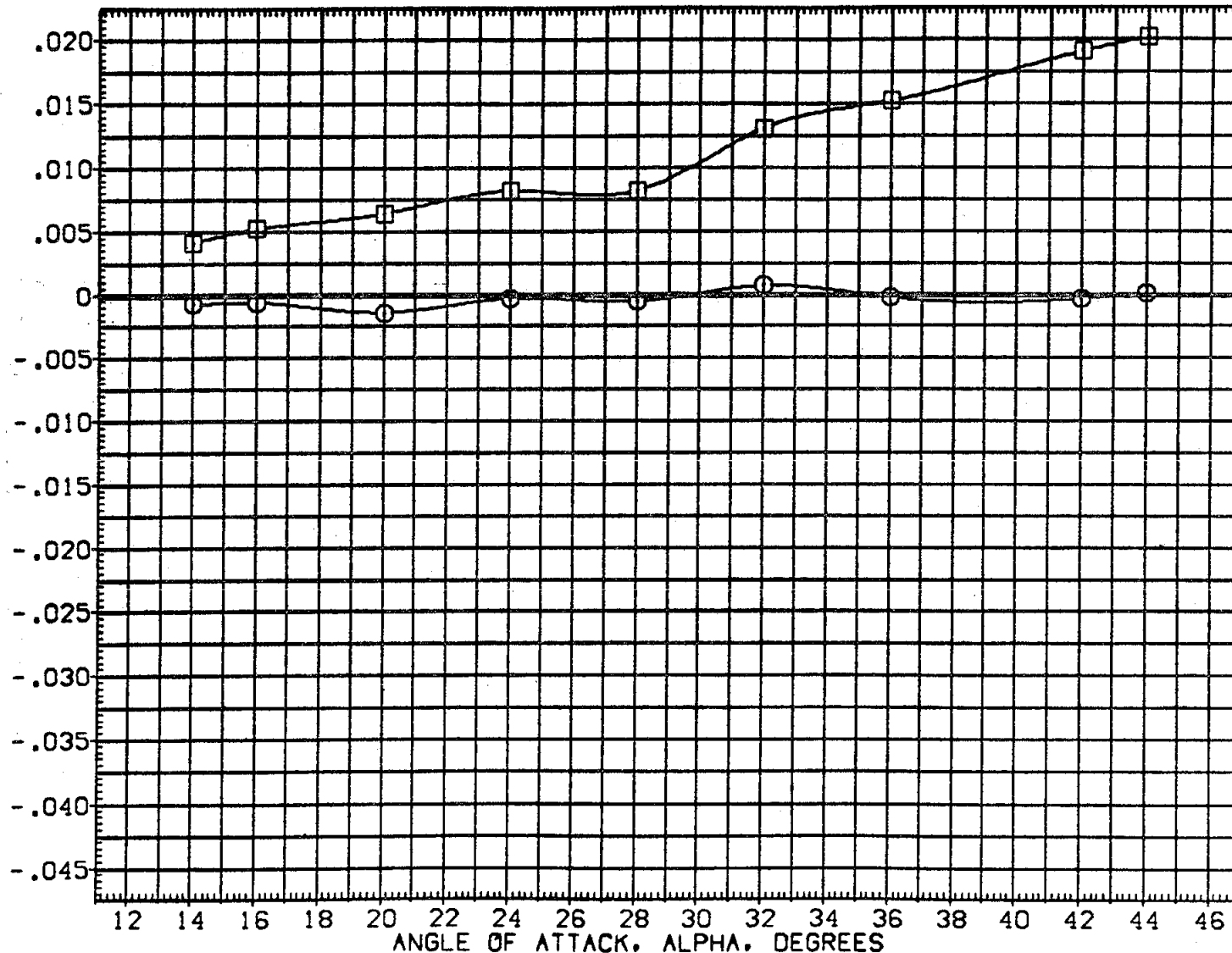


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEO12) ☐ B26 C9 M7 F7 V116 V8 E37 R5
 (GEO14) ☐ DATA NOT AVAILABLE

DBDFLP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRF	1076.7000 IN.
				YMRF	.0000 IN.
				ZMRF	375.0000 IN.
				SCALE	.0150

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT • DCAF

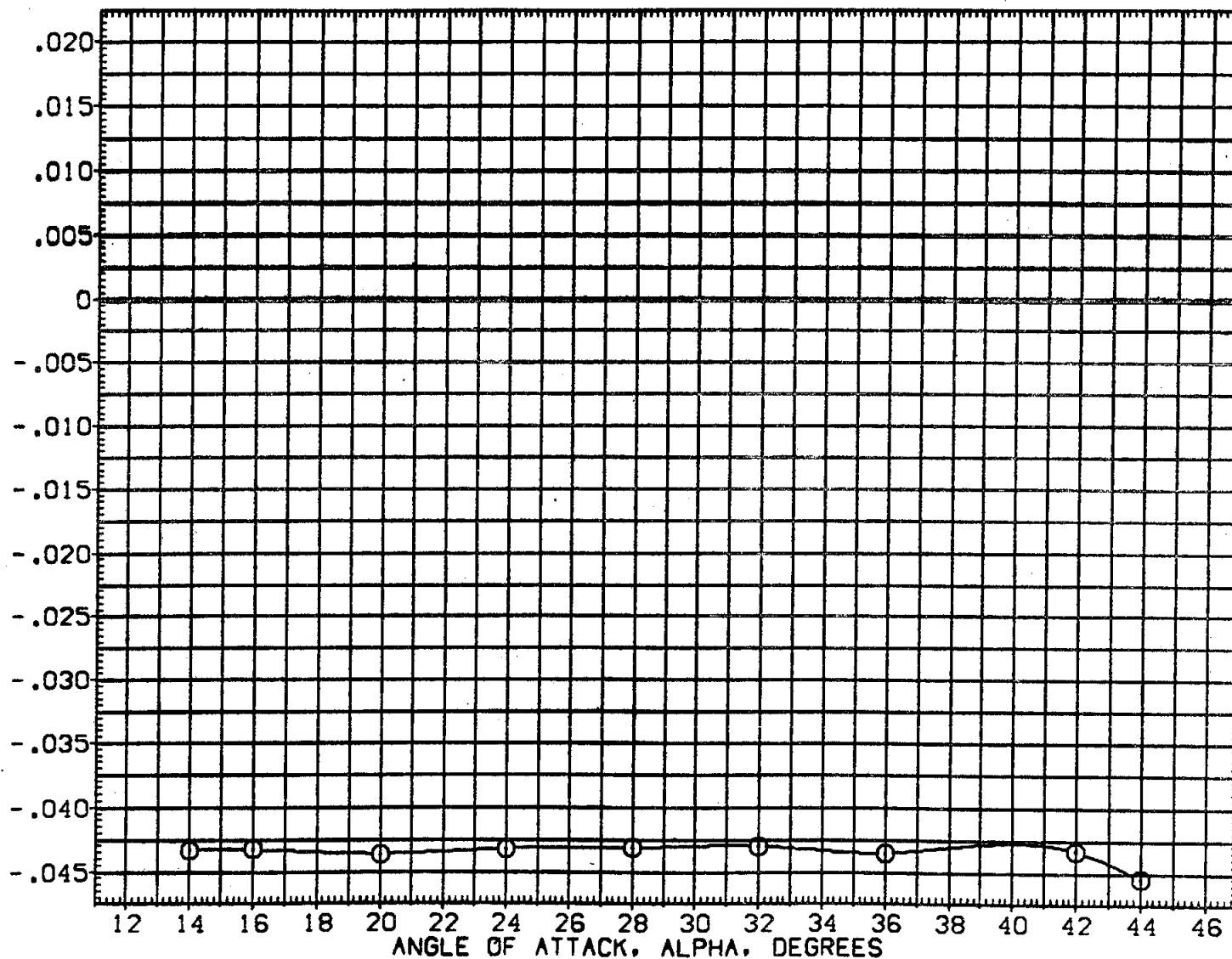


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO12)	826 C9 M7 F7 V116 V8 E37 R5
(GEPO14)	826 C9 M7 F7 V116 V8 E37 R5

DBDFLP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION
-11.700	55.000	.000	.000	SREF 2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF 474.8000 IN.
				BREF 936.7000 IN.
				XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

INCREMENTAL BASE AXIAL FORCE COEFFICIENT • DCAB

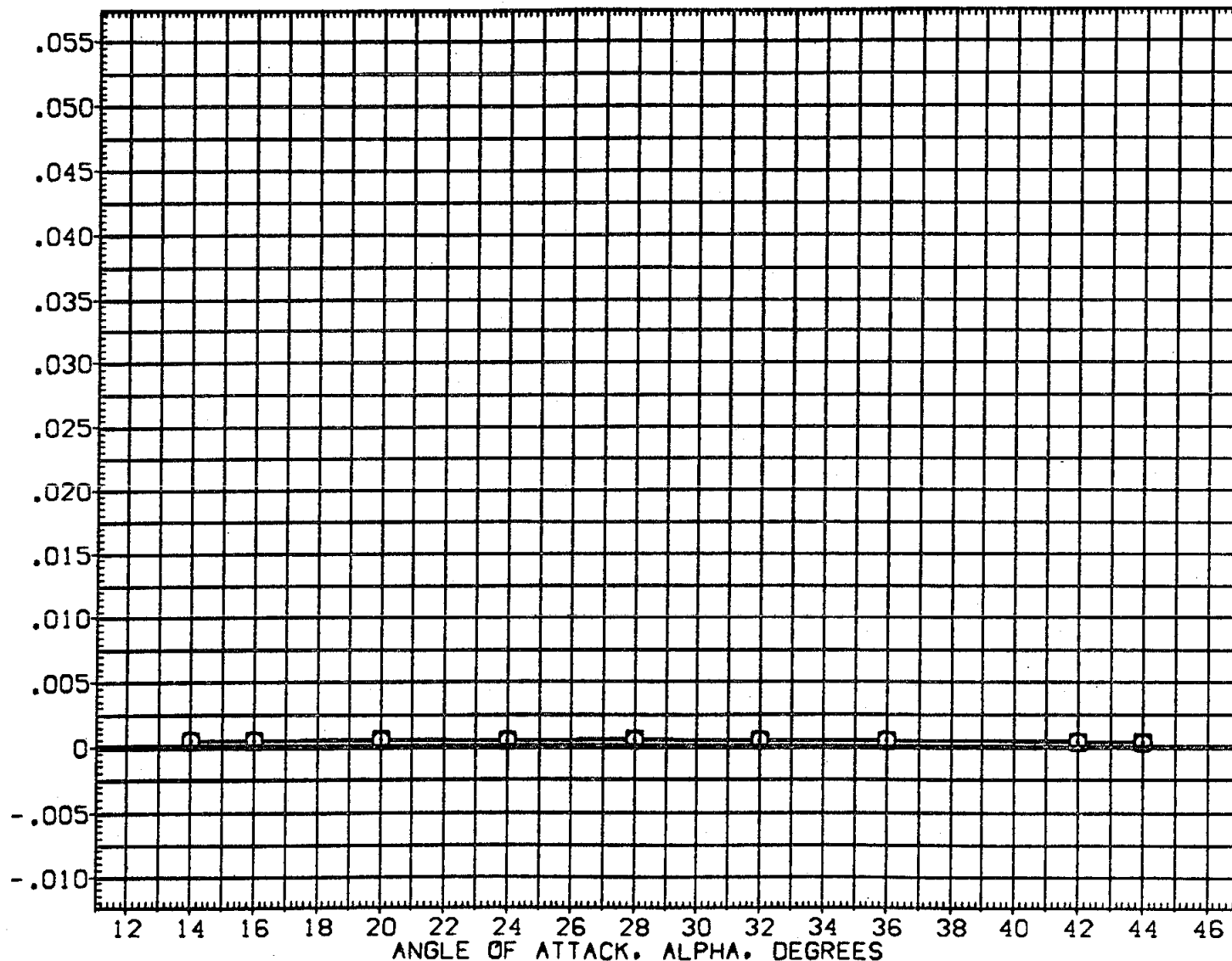


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEPO12) ○ 826 C9 M7 F7 V116 V8 E37 R5
 (GEPO14) □ DATA NOT AVAILABLE

DBDFLP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL BASE AXIAL FORCE COEFFICIENT • DCAB

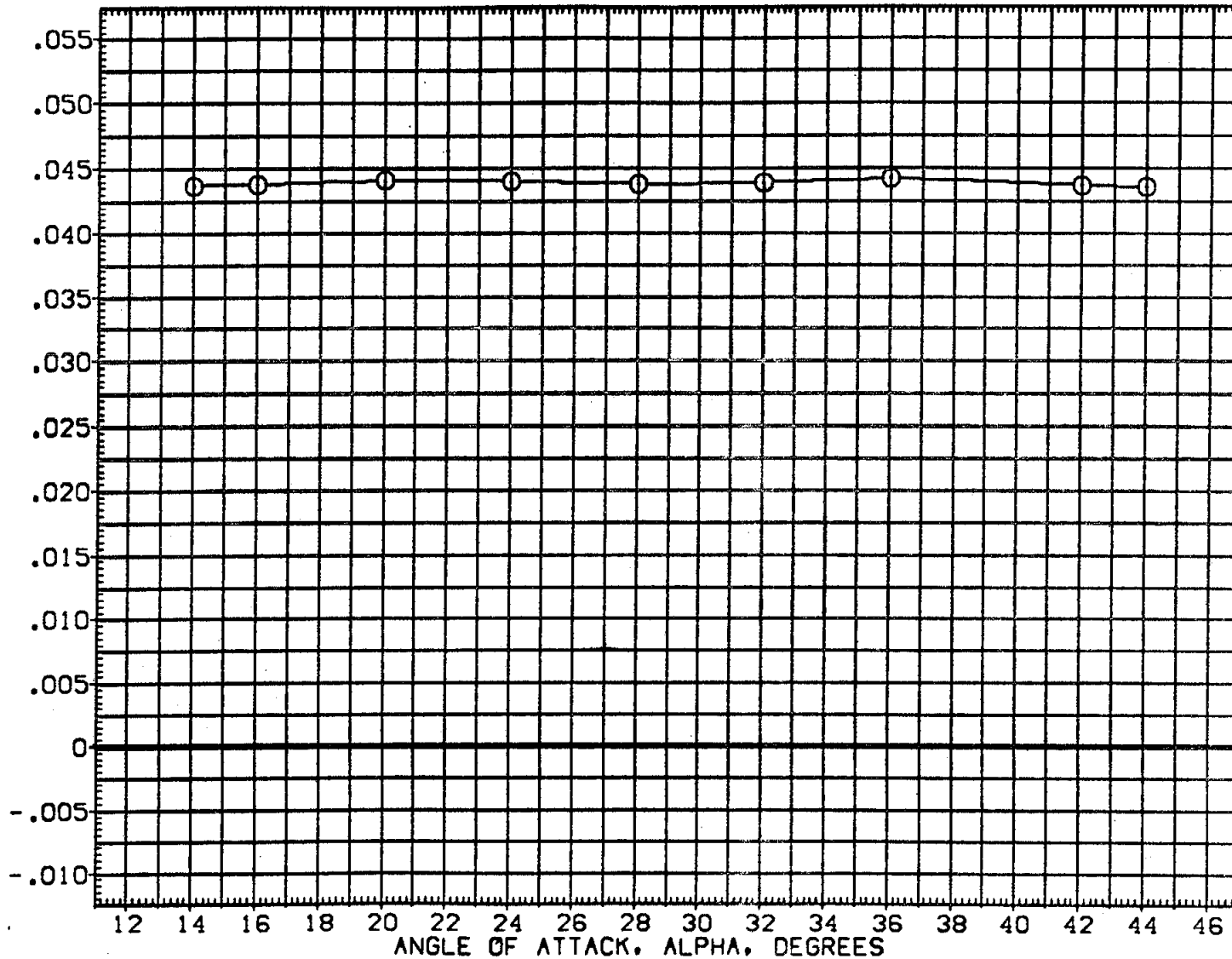


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO12) ○	826 C9 M7 F7 V116 V8 E37 R5
(GEPO14) □	826 C9 M7 F7 V116 V8 E37 R5

DBOFLP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

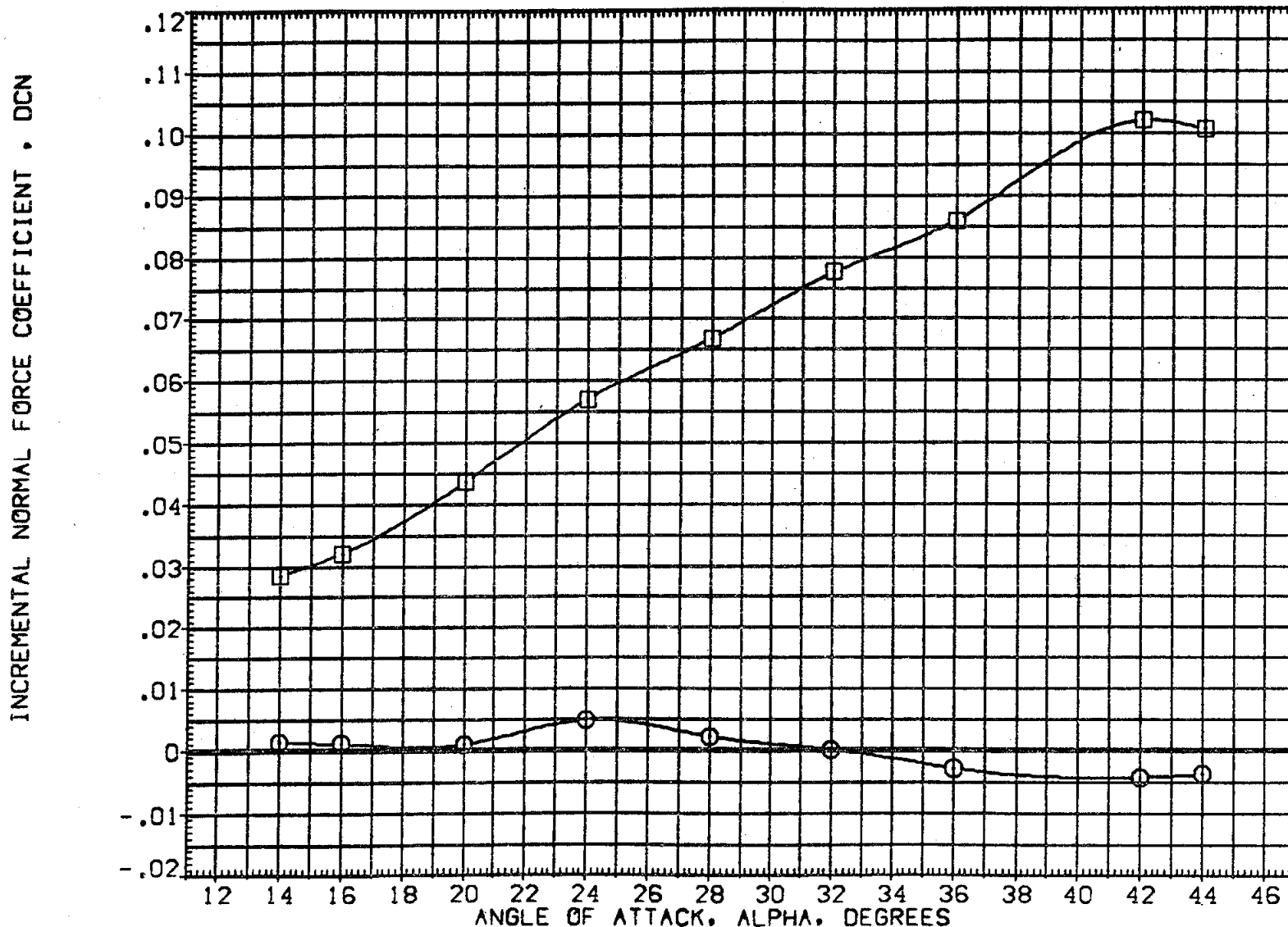


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEPO12) ☐ B26 C9 M7 F7 V116 V8 E37 R5
 (GEPO14) ☐ DATA NOT AVAILABLE

	DBDFLP	SPDSRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
	-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
	16.300	55.000	.000	.000	LREF	474.8000 IN.
					BREF	936.7000 IN.
					XMRP	1076.7000 IN.
					YMRP	.0000 IN.
					ZMRP	375.0000 IN.
					SCALE	.0150

INCREMENTAL NORMAL FORCE COEFFICIENT • DCN

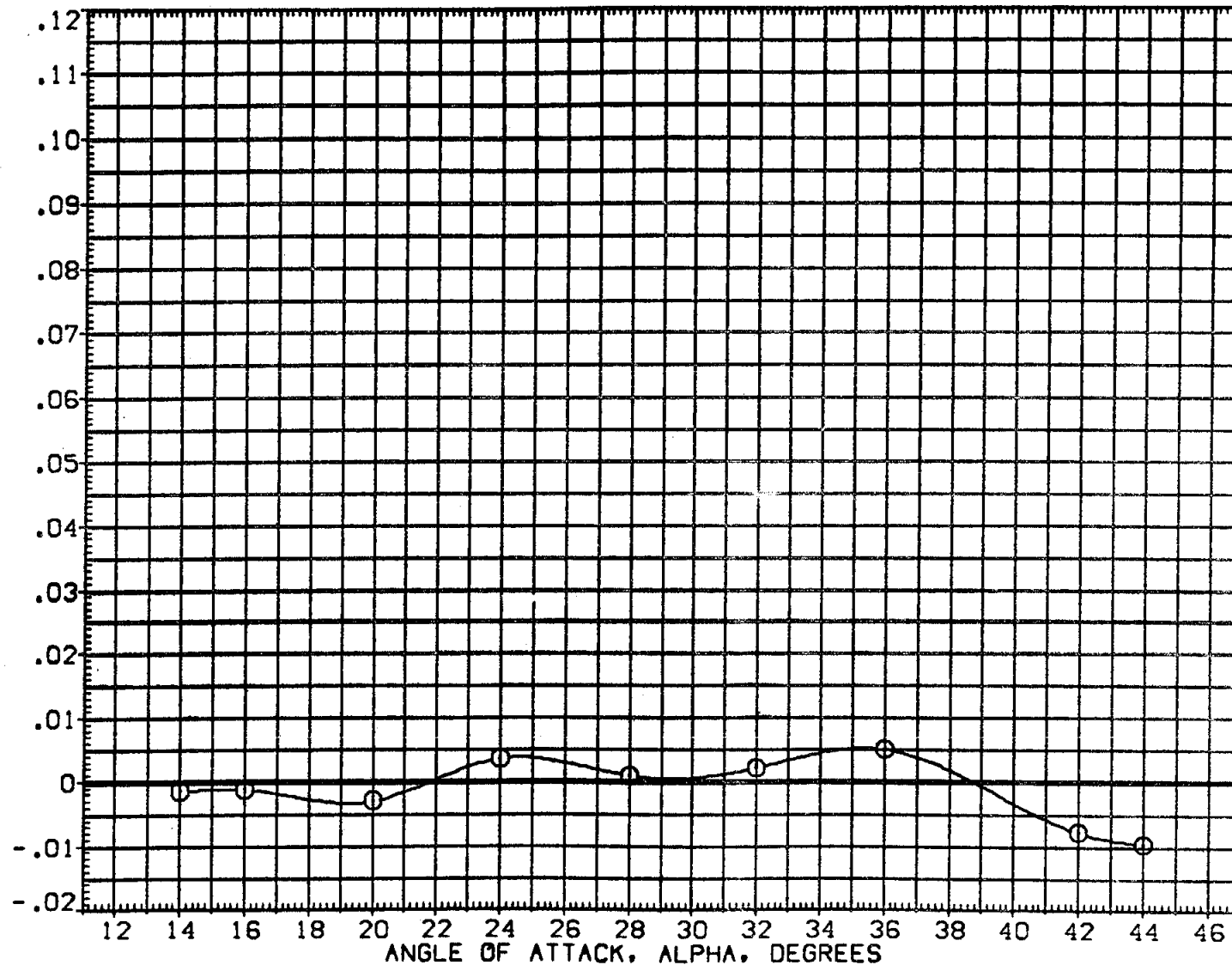


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEPO12)	B26 C9 M7 F7 V116 V8 E37 R5
(GEPO14)	B26 C9 M7 F7 V116 V8 E37 R5

DBDFLP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION		
-11.700	55.000	.000	.000	SREF	2690.0000	SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000	IN.
				BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

INCREMENTAL PITCHING MOMENT COEF. ABOUT FWD CG . DCMFWD

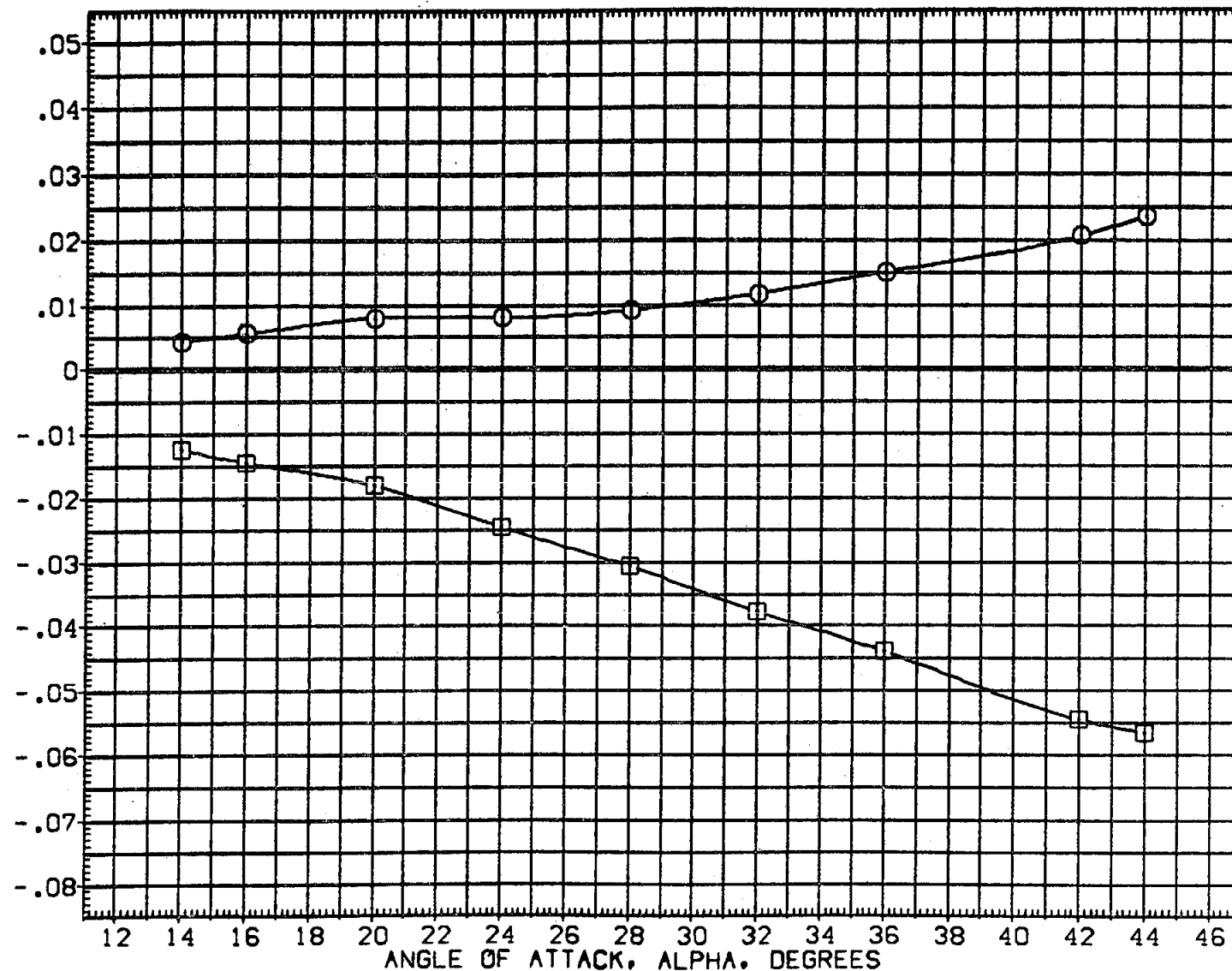


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (GEPO12) ☐ 926 C9 M7 F7 V118 V8 E37 R5
 (GEPO14) ☐ DATA NOT AVAILABLE

DBDFLP	SPOBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 50.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT FWD CG . DCMFWD

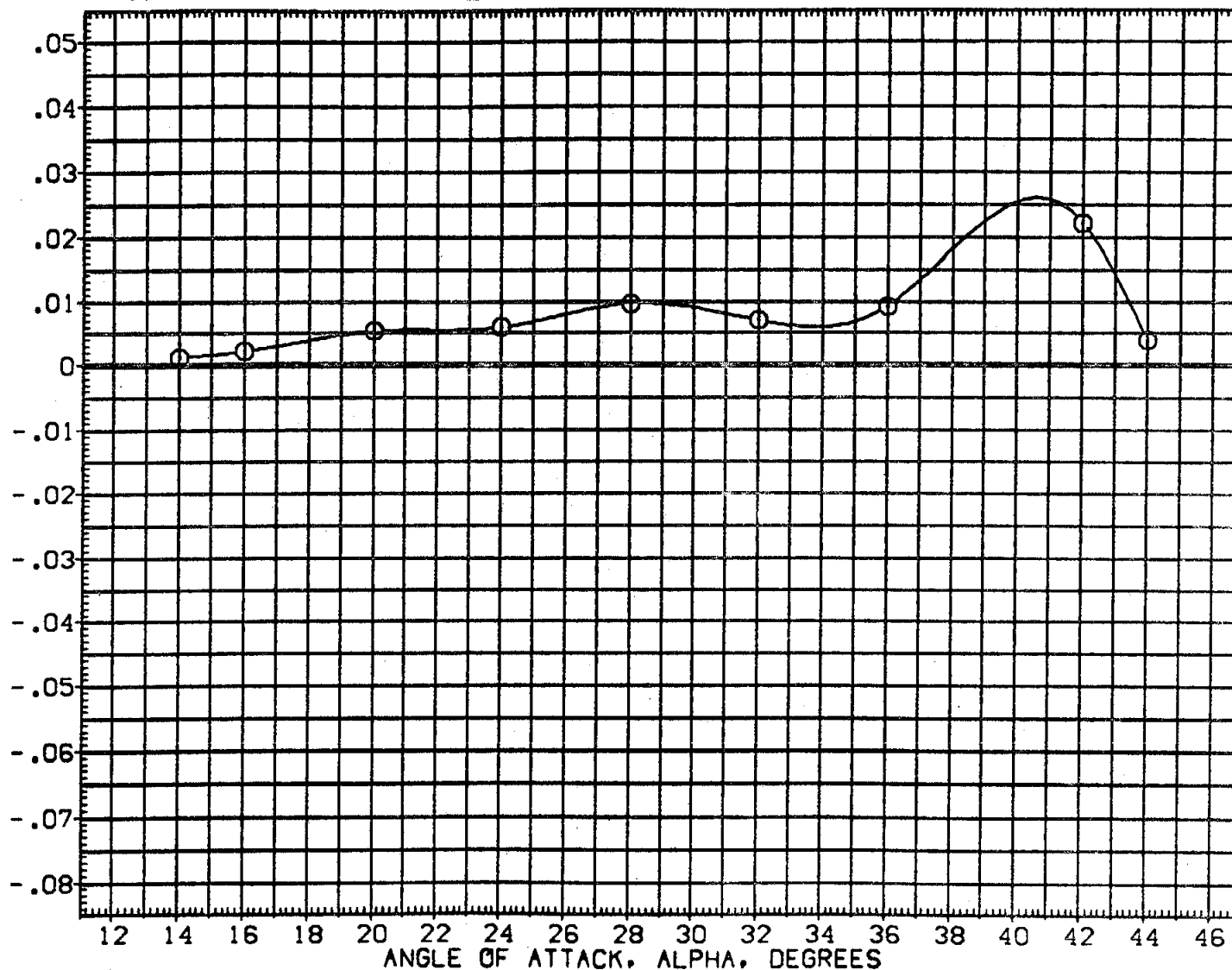


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(GEP012)	826 C9 M7 F7 V116 V8 E37 R5
(GEP014)	826 C9 M7 F7 V116 V8 E37 R5

DBDFLP	SPDBRK	ELEV-L	ELEV-R	REFERENCE INFORMATION	
-11.700	55.000	.000	.000	SREF	2690.0000 SQ.FT.
16.300	55.000	.000	.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT AFT CG . DCMAFT

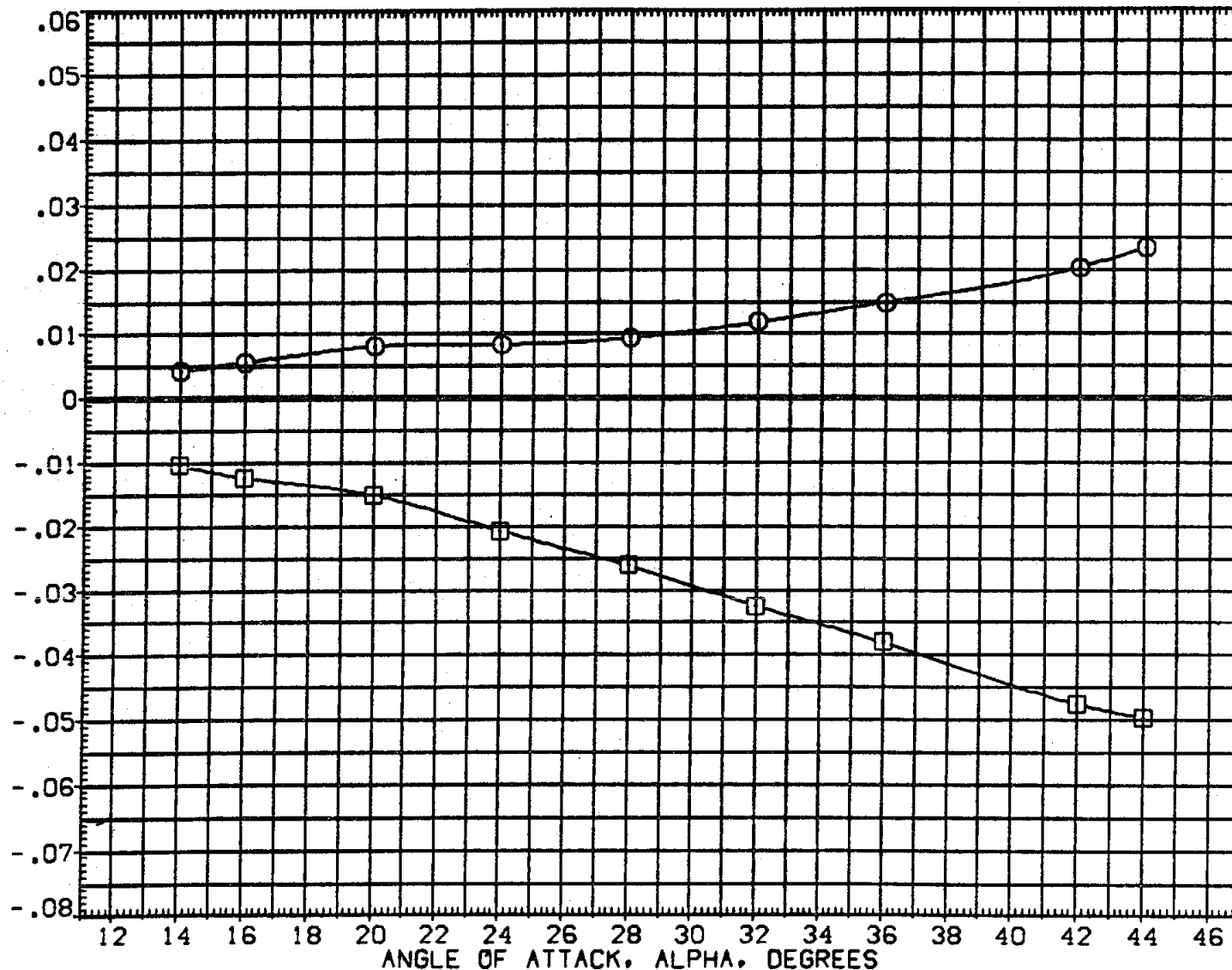


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 {DEPO12} ☐ B26 C9 M7 F7 V116 V8 E37 R5
 {DEPO14} ☐ DATA NOT AVAILABLE

OBOFLP SPDBRK ELEV-L ELEV-R
 -11.700 55.000 .000 .000
 16.300 55.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.7000 IN.
 XMRP 1076.7000 IN.
 YMRP .0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT AFT CG - DCMAFT

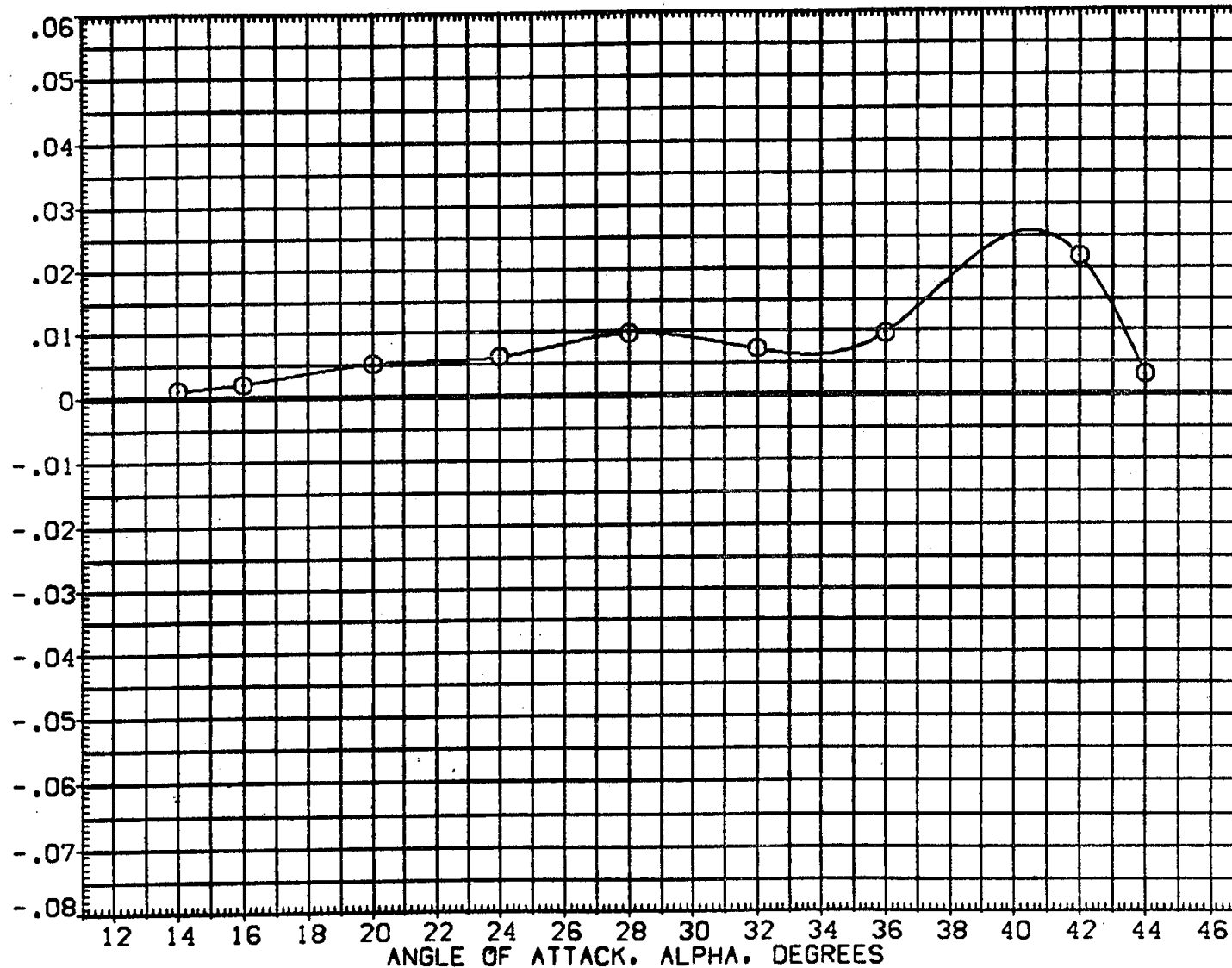


FIG. 6 BODY FLAP EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18) ○	826 CS M7 F7 V116 V8 E37 R5
(DEPO12) □	826 CS M7 F7 V116 V8 E37 R5
(DEPO11) ◇	826 CS M7 F7 V116 V8 E37 R5

SPDRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

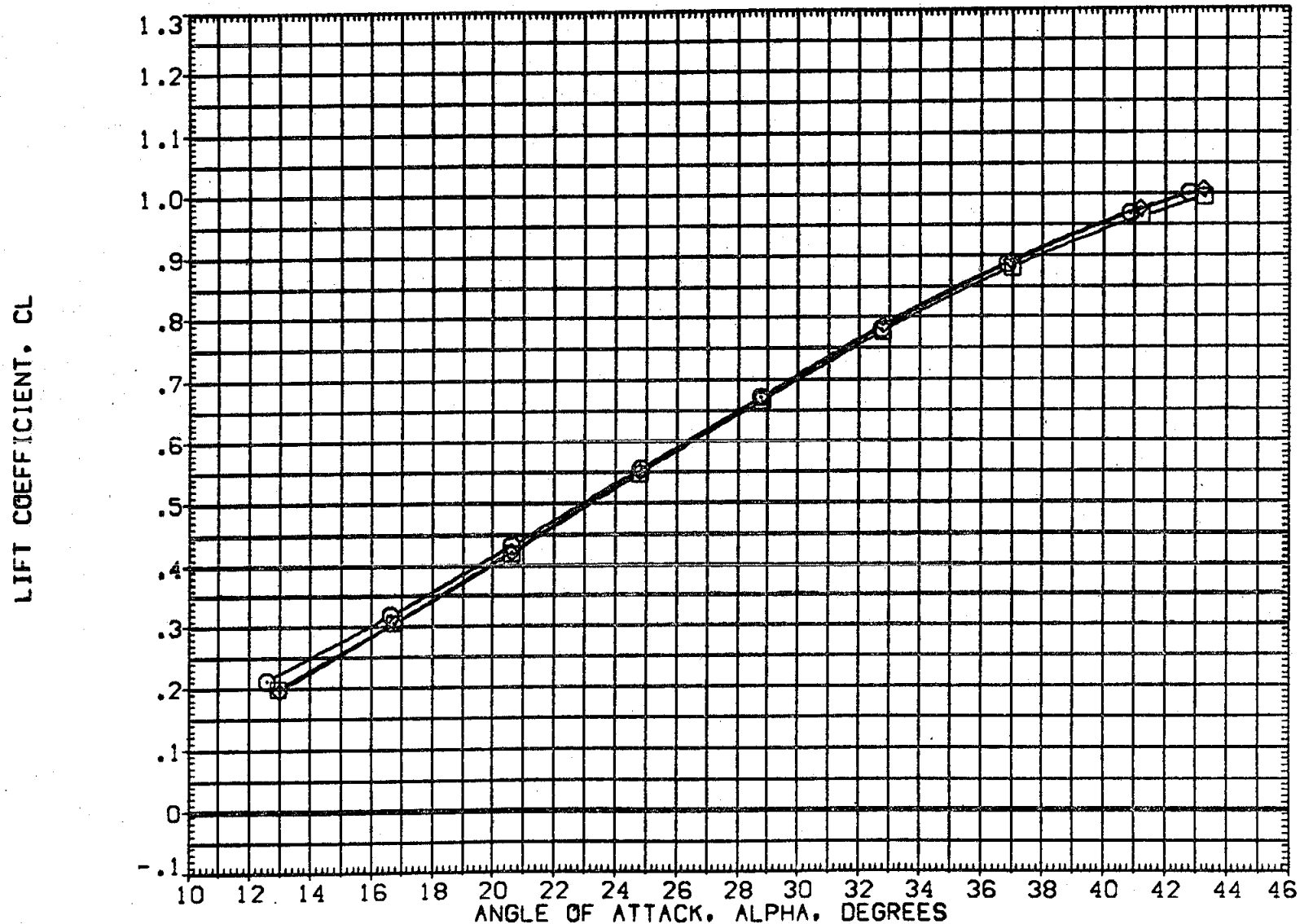


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP018)	DATA NOT AVAILABLE
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5

SPOBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	SREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

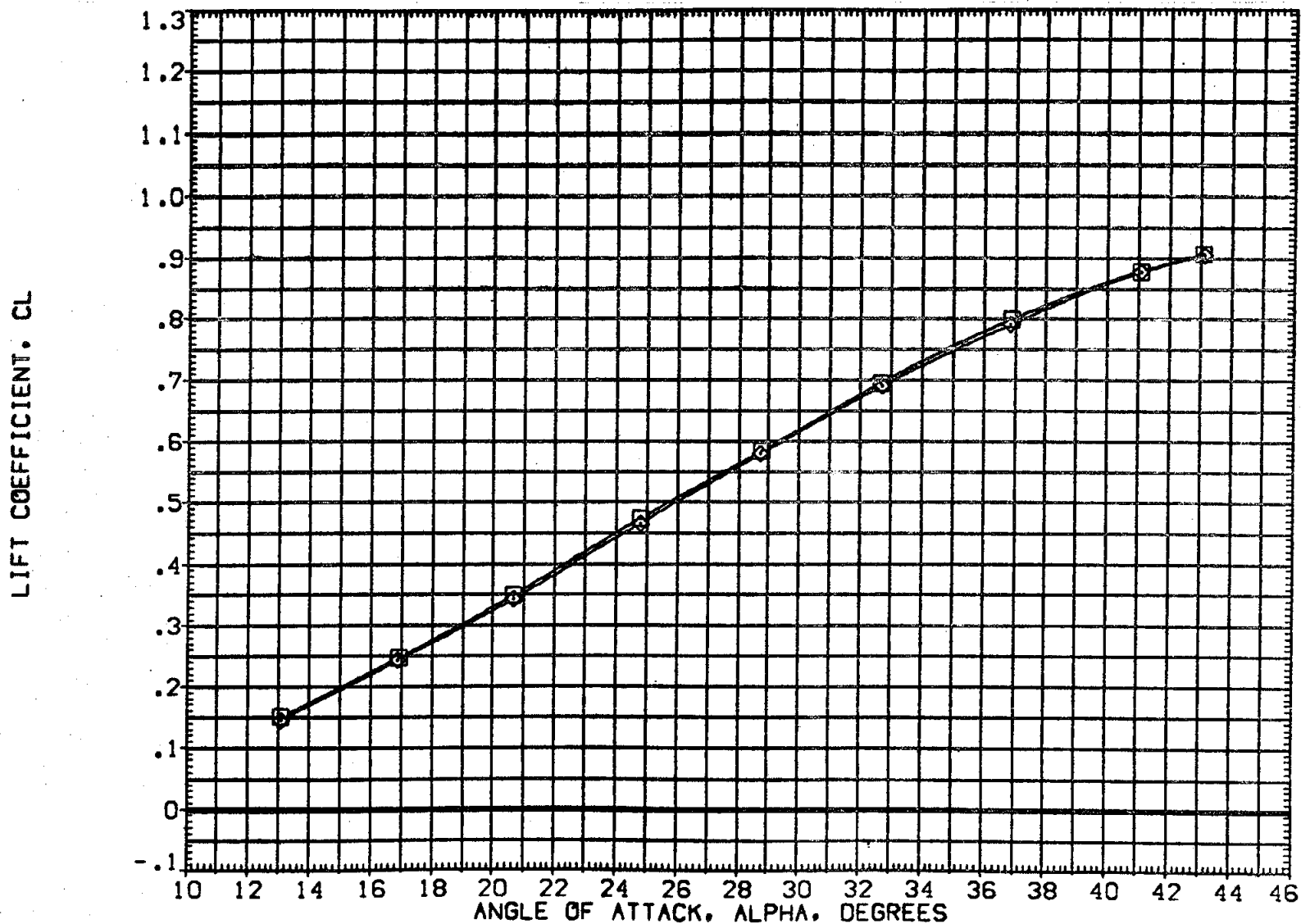


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18)	B26 CS M7 F7 V116 V8 E37 R5
(DEPO12)	B26 CS M7 F7 V116 V8 E37 R5
(DEPO11)	B26 CS M7 F7 V116 V8 E37 R5

SPDBRK	BDFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION
25.000	-11.700	.000	.000	SREF 2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF 474.8000 IN.
85.000	-11.700	.000	.000	BREF 936.7000 IN.
				XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

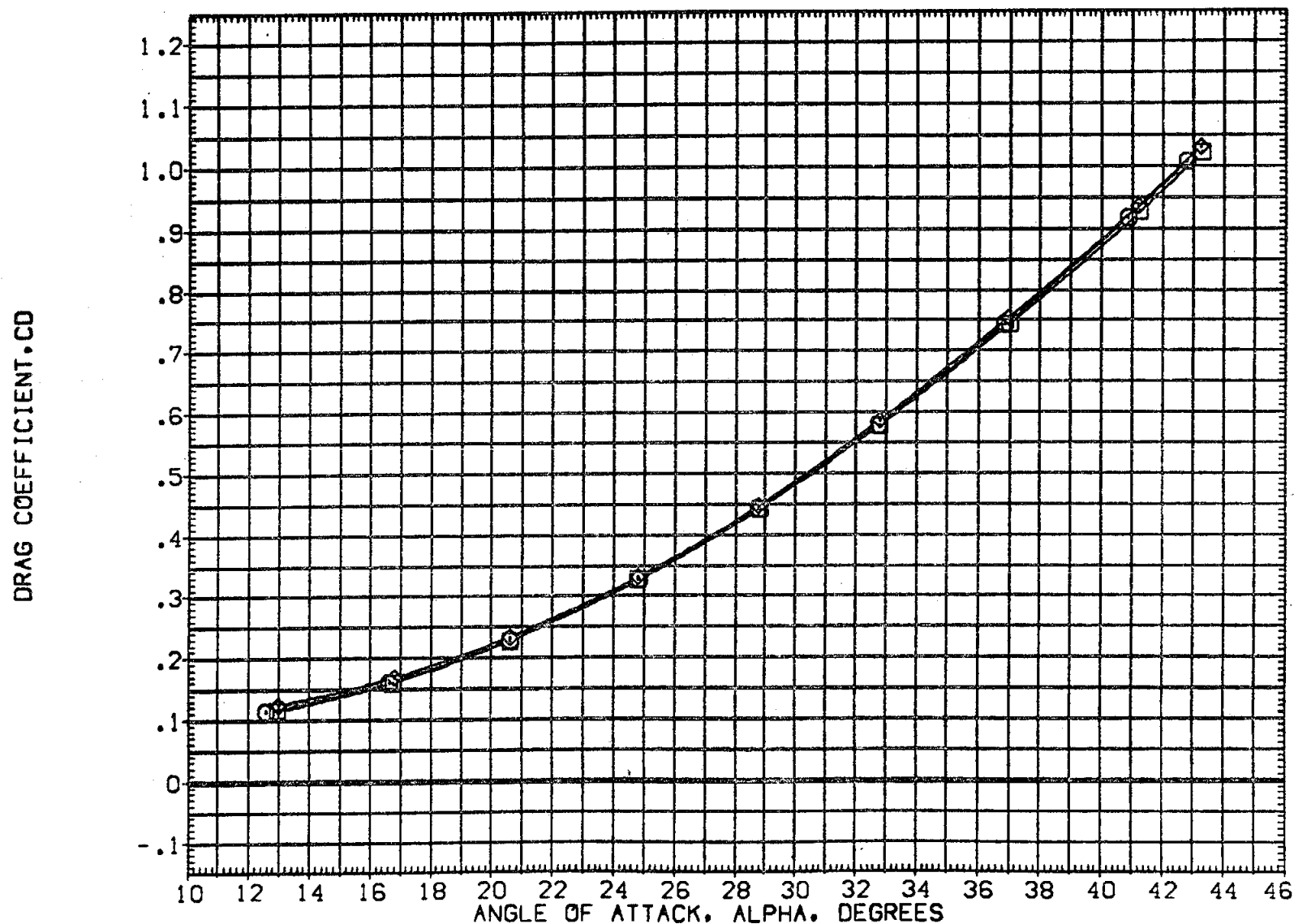


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP018)	DATA NOT AVAILABLE
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5

SPDBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
65.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

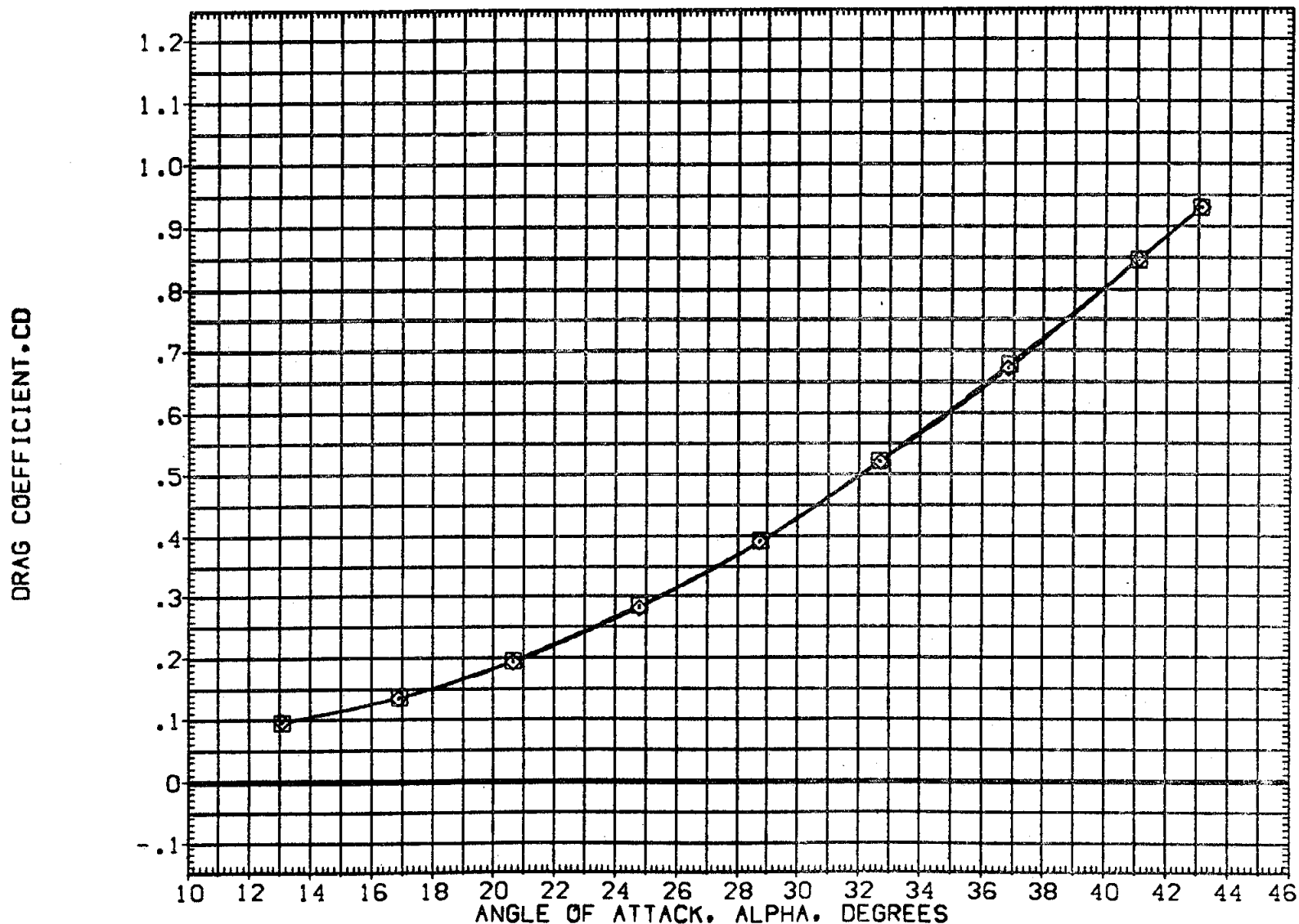


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP018)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5

SPOBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
25.000	-11.700	.000	.000	SREF	2690.0000	50.FT.
55.000	-11.700	.000	.000	LREF	474.8000	IN.
85.000	-11.700	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY DRAG COEFFICIENT, CDF

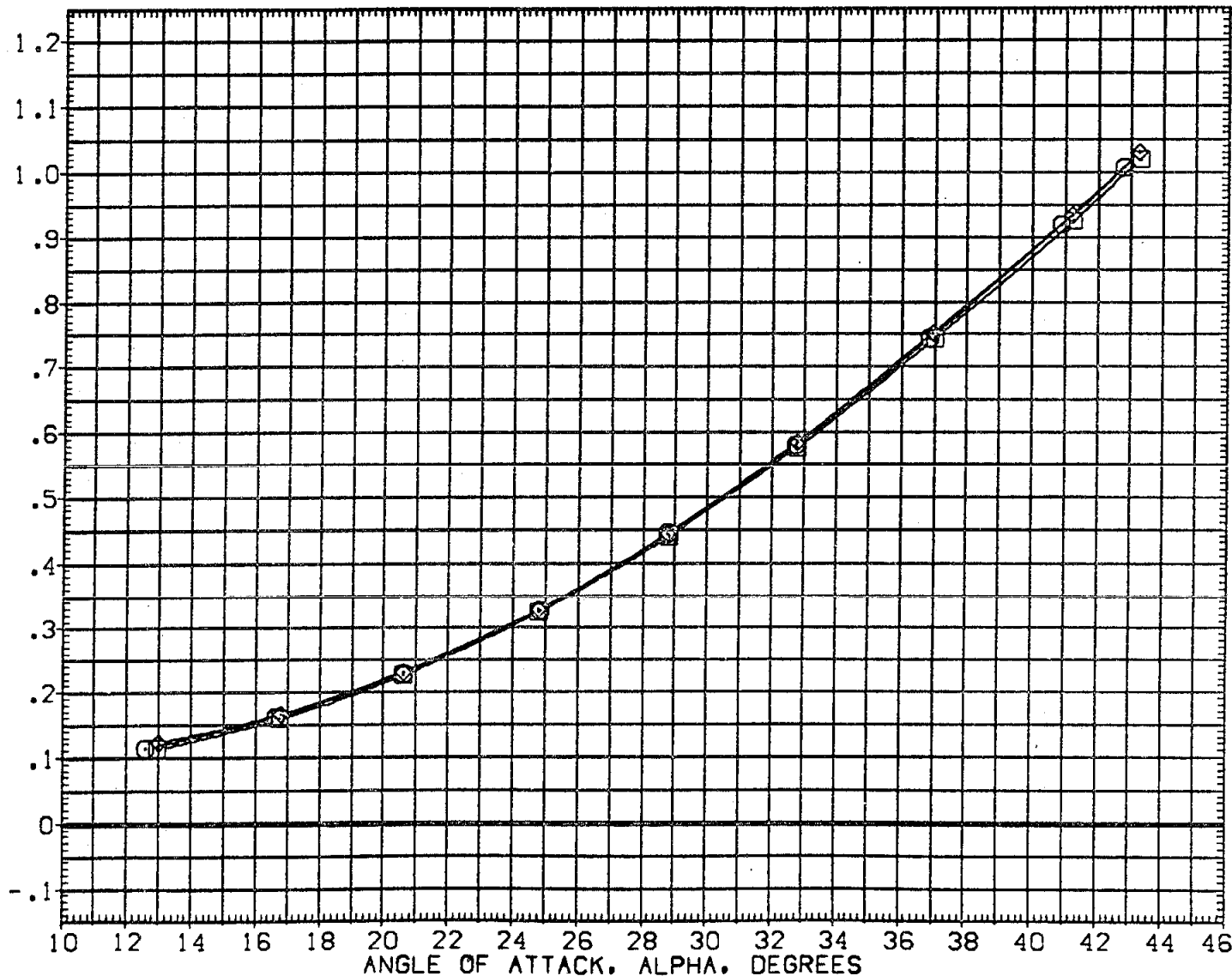


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18)	DATA NOT AVAILABLE
(DEPO12)	B26 C9 M7 F7 W116 V8 E37 R5
(DEPO11)	B26 C9 M7 F7 W116 V8 E37 R5

SPDBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRF	1076.7000 IN.
				YMRF	.0000 IN.
				ZMRF	375.0000 IN.
				SCALE	.0150

FOREBODY DRAG COEFFICIENT, CDF

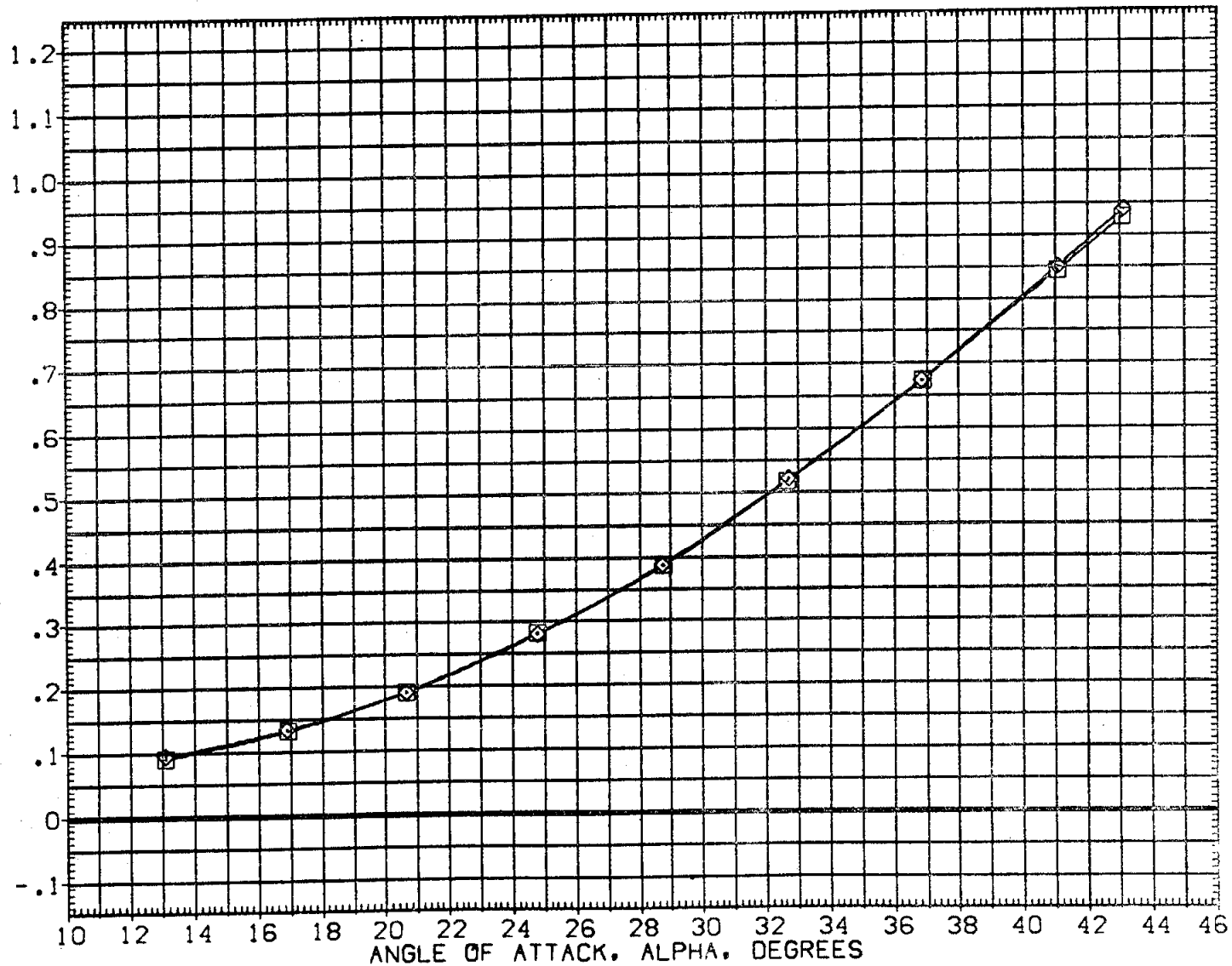


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO12)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO11)	826 C9 M7 F7 V116 V8 E37 R5

SPDRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

AXIAL FORCE COEFFICIENT, CA

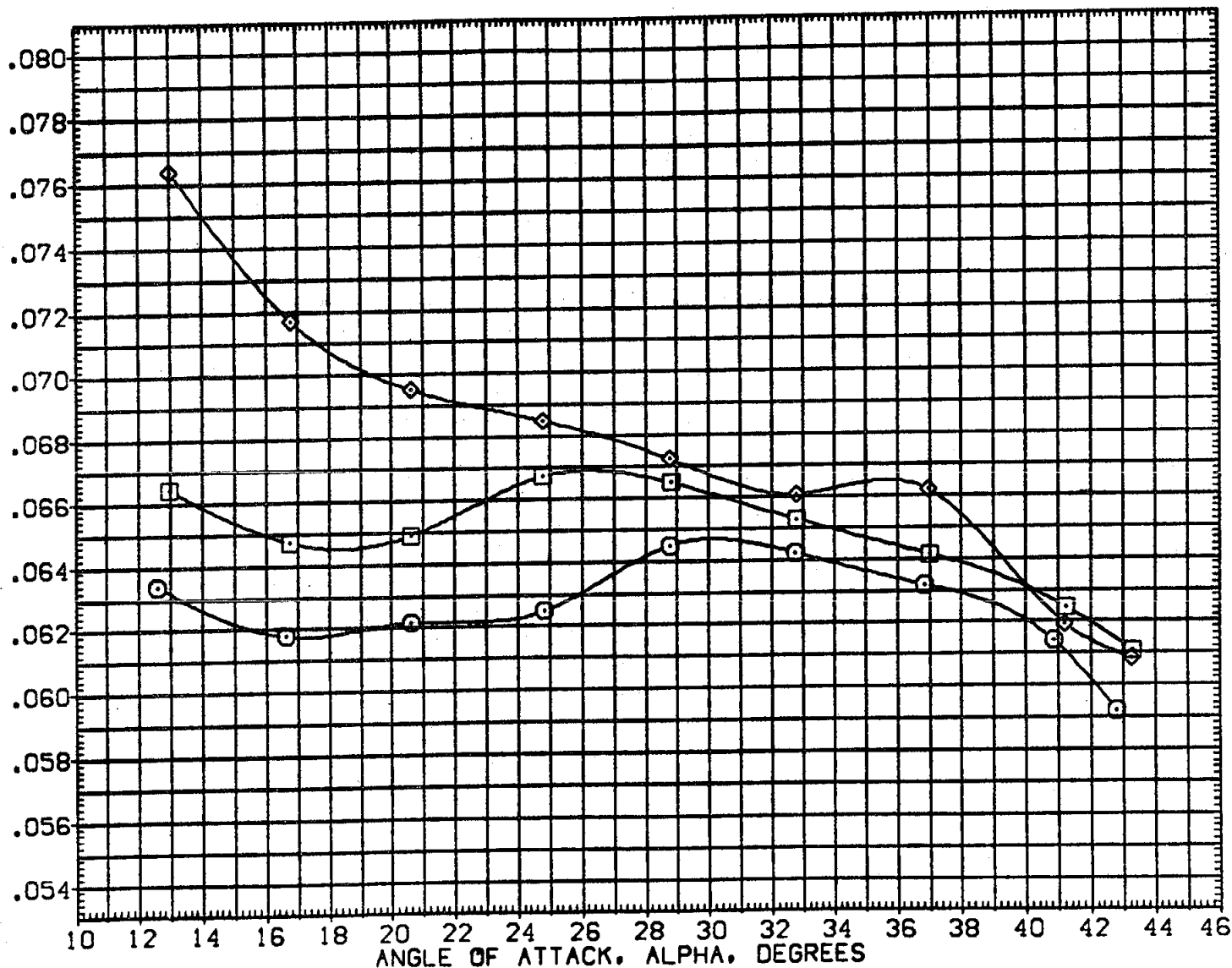


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18)	DATA NOT AVAILABLE
(DEPO12)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO11)	826 C9 M7 F7 V116 V8 E37 R5

SPOBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

AXIAL FORCE COEFFICIENT, CA

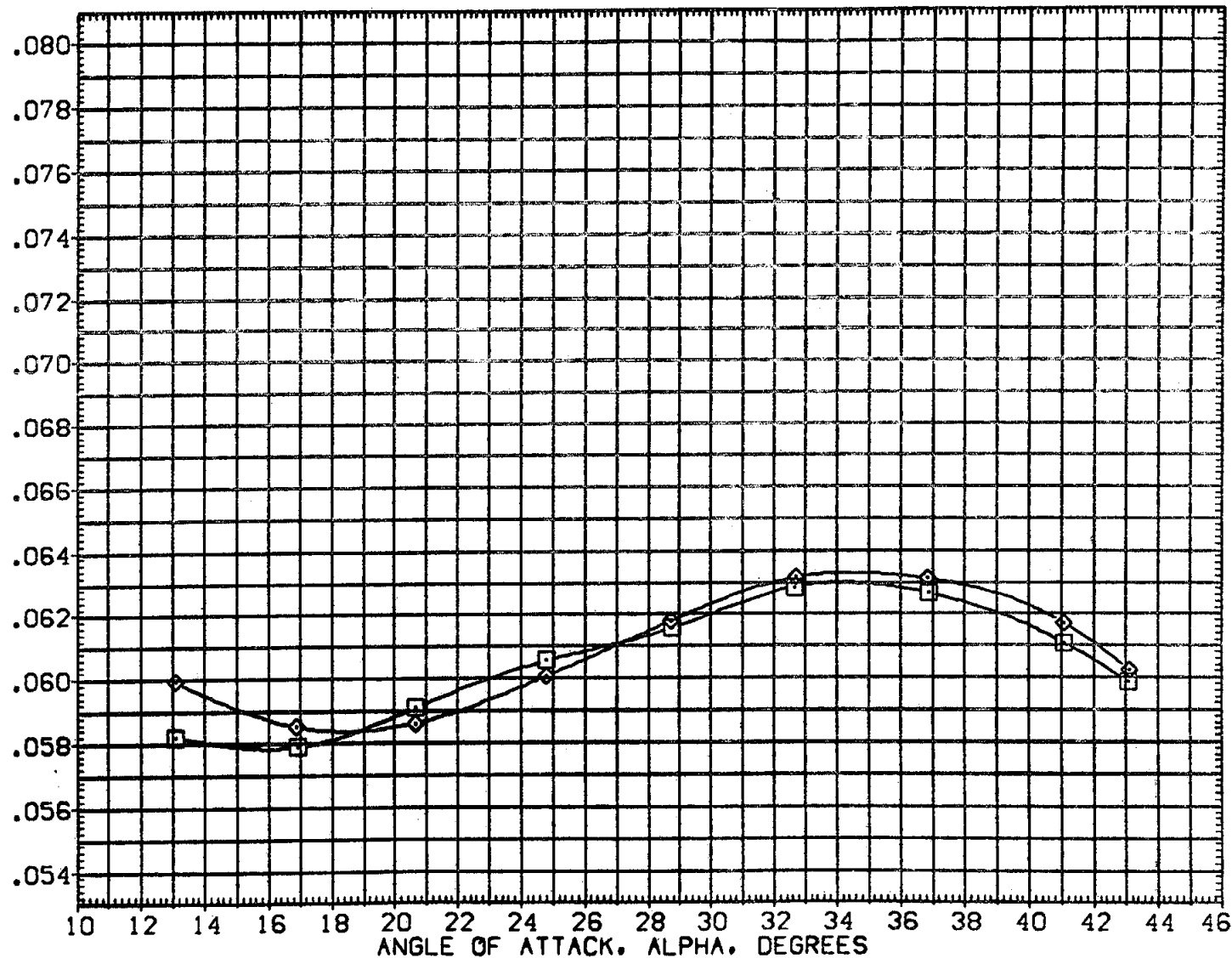


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP018)	826 C9 M7 F7 V116 V8 E37 R3
(DEP012)	826 C9 M7 F7 V116 V8 E37 R3
(DEP011)	826 C9 M7 F7 V116 V8 E37 R3

SPOBRK	BDFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

FOREBODY AXIAL FORCE COEFFICIENT, CAF

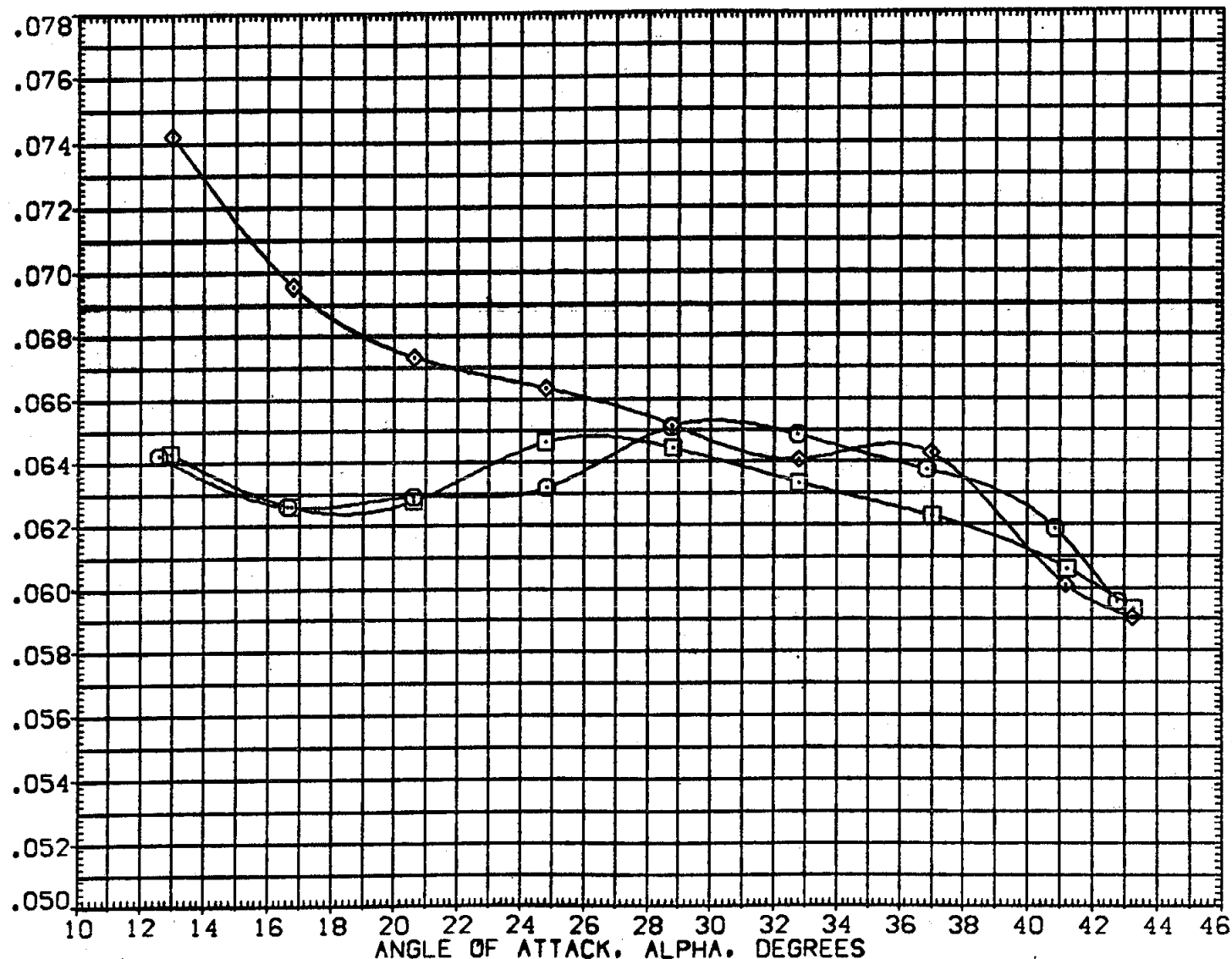


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
{DEPO18}	DATA NOT AVAILABLE
{DEPO12}	826 C9 M7 F7 V116 V8 E37 R5
{DEPO11}	826 C9 M7 F7 V116 V8 E37 R5

SPDRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

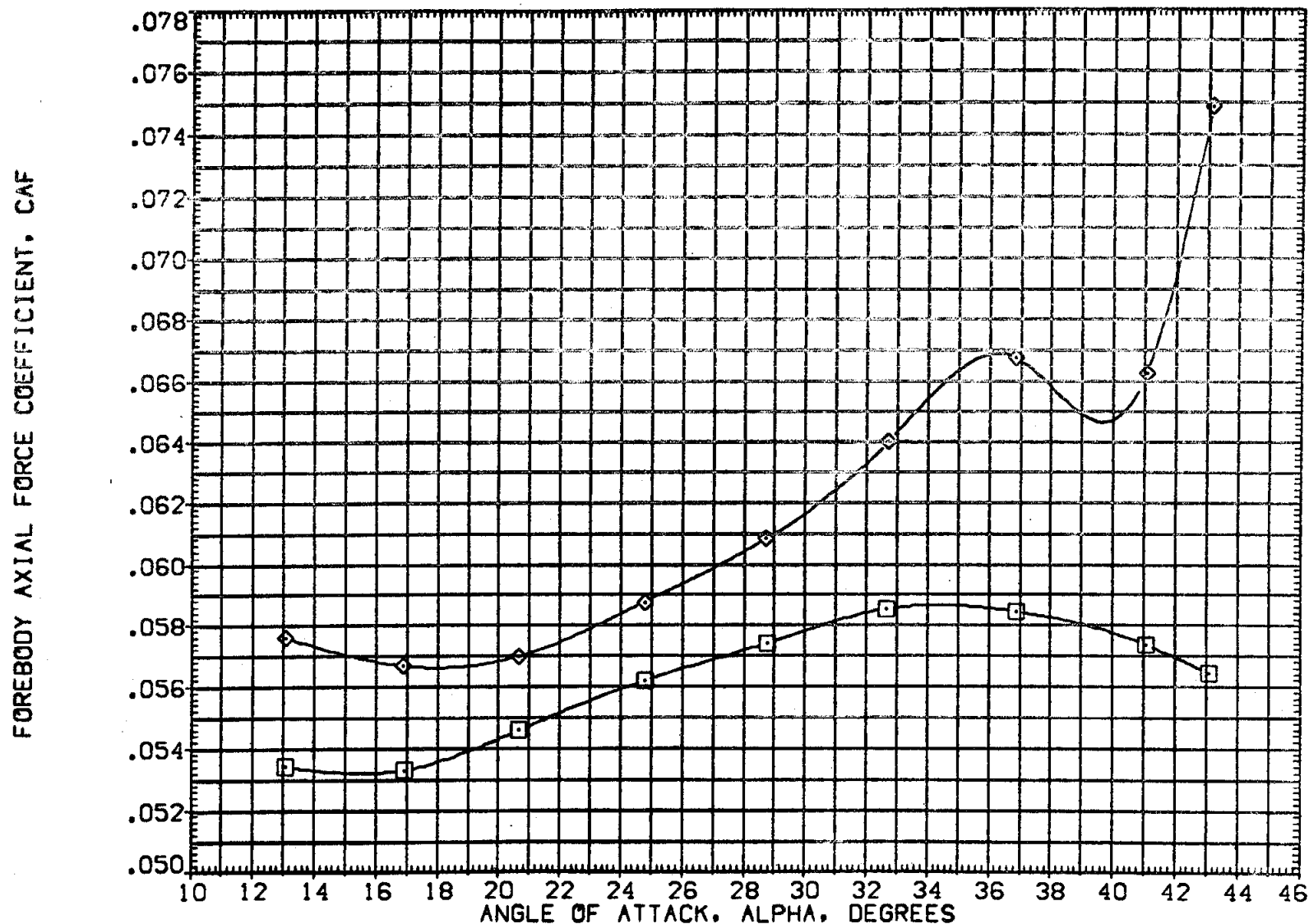


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP018) ○	B26 C9 M7 F7 V116 V8 E37 R5
(DEP012) □	B26 C9 M7 F7 V116 V8 E37 R5
(DEP011) ◇	B26 C9 M7 F7 V116 V8 E37 R5

SPOBRK	BDFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

BASE AXIAL FORCE COEFFICIENT, CAB

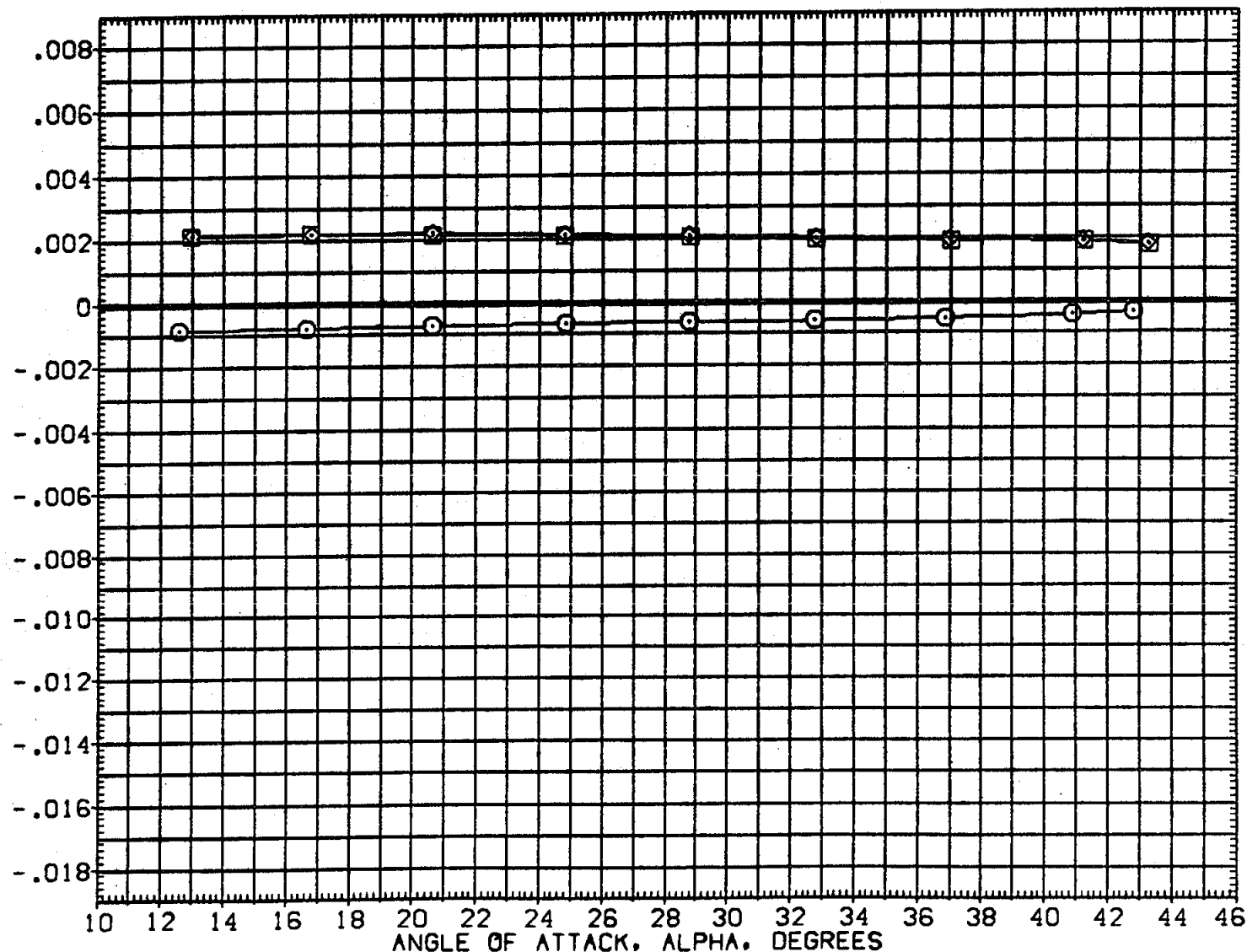


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18)	DATA NOT AVAILABLE
(DEPO12)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO11)	826 C9 M7 F7 V116 V8 E37 R5

SPOBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION
25.000	-11.700	.000	.000	SREF 2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF 474.8000 IN.
85.000	-11.700	.000	.000	BREF 936.7000 IN.
				XMRF 1076.7000 IN.
				YMRF .0000 IN.
				ZMRF 375.0000 IN.
				SCALE .0150

BASE AXIAL FORCE COEFFICIENT, CAB

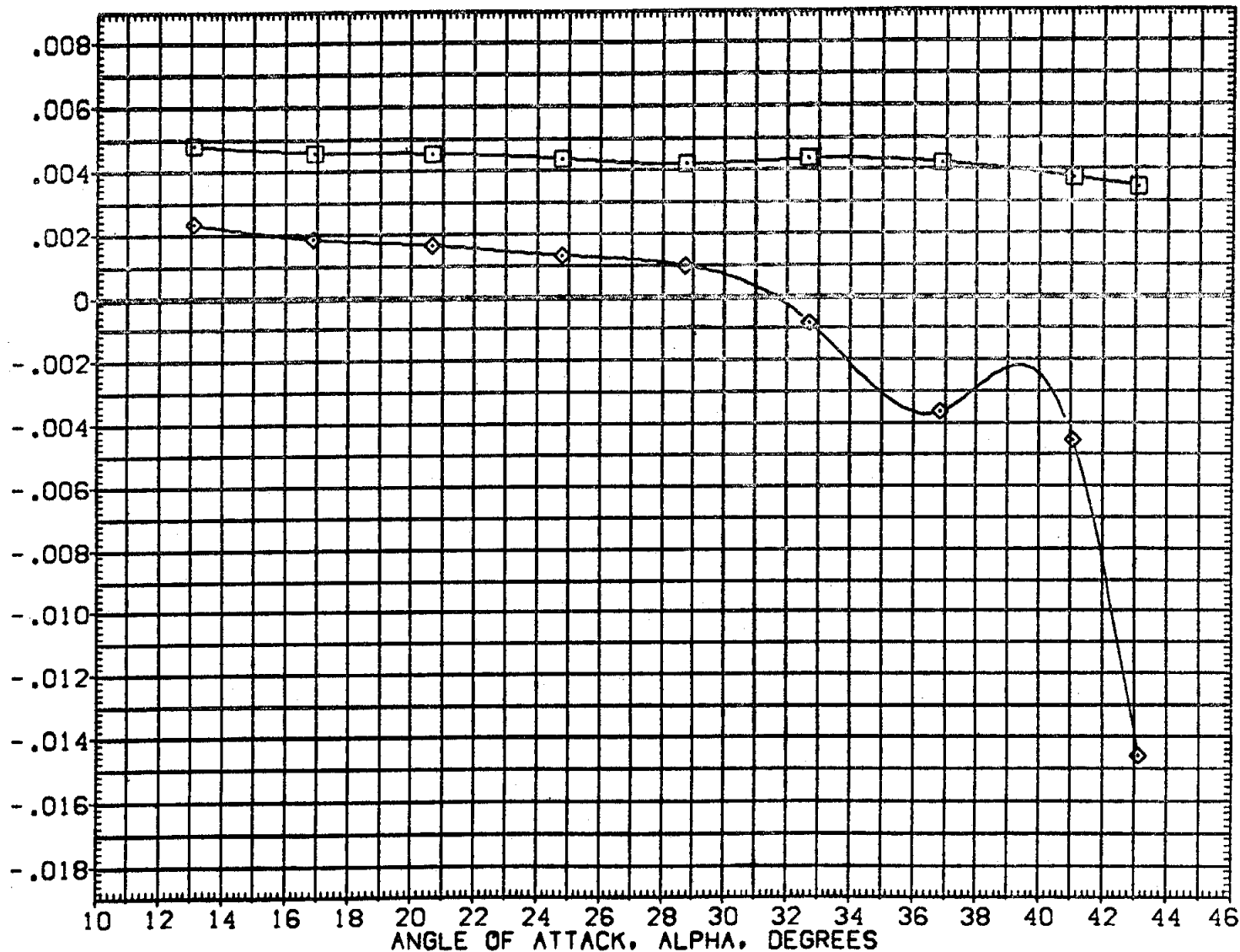


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO12)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO11)	826 C9 M7 F7 V116 V8 E37 R5

SPDBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

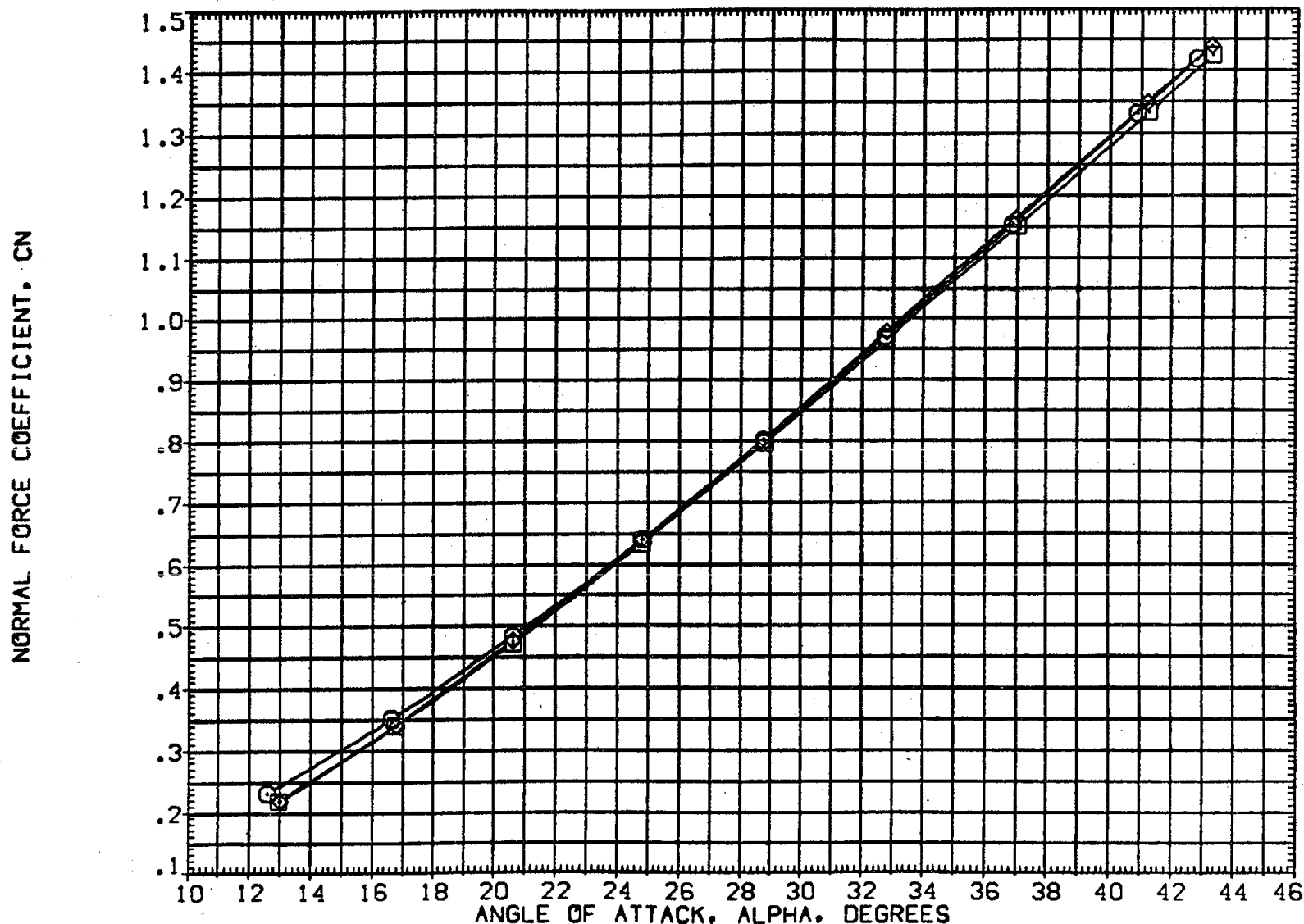


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP018)	DATA NOT AVAILABLE
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5

SPDRX	BDFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
25.000	-11.700	.000	.000	SREF	2690.0000	SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000	IN.
85.000	-11.700	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

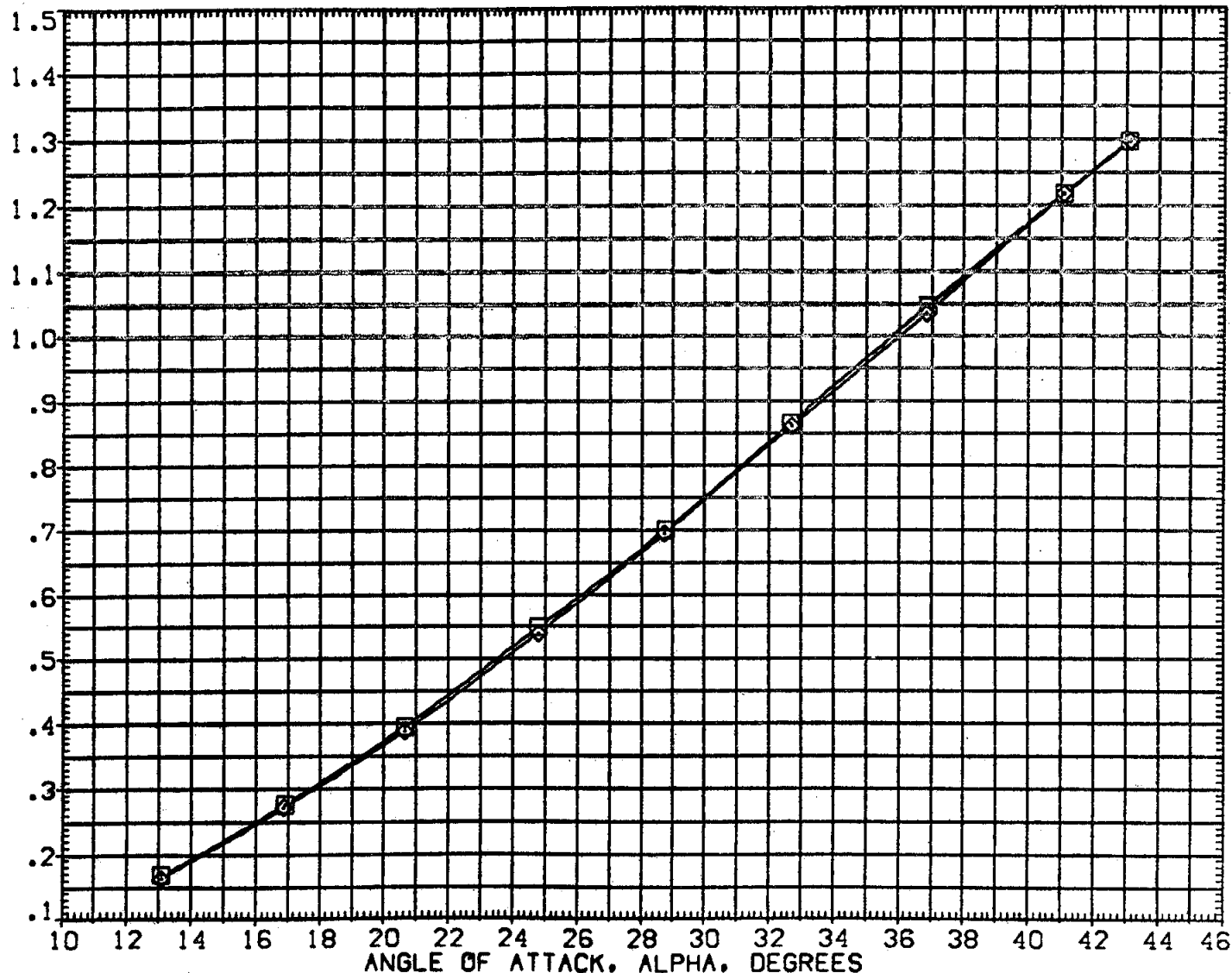


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO10)	826 CS M7 F7 V116 V8 E37 R5
(DEPO12)	826 CS M7 F7 V116 V8 E37 R5
(DEPO11)	826 CS M7 F7 V116 V8 E37 R5

SPOBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

PITCHING MOMENT COEFFICIENT ABOUT FORWARD CG - CLMFW

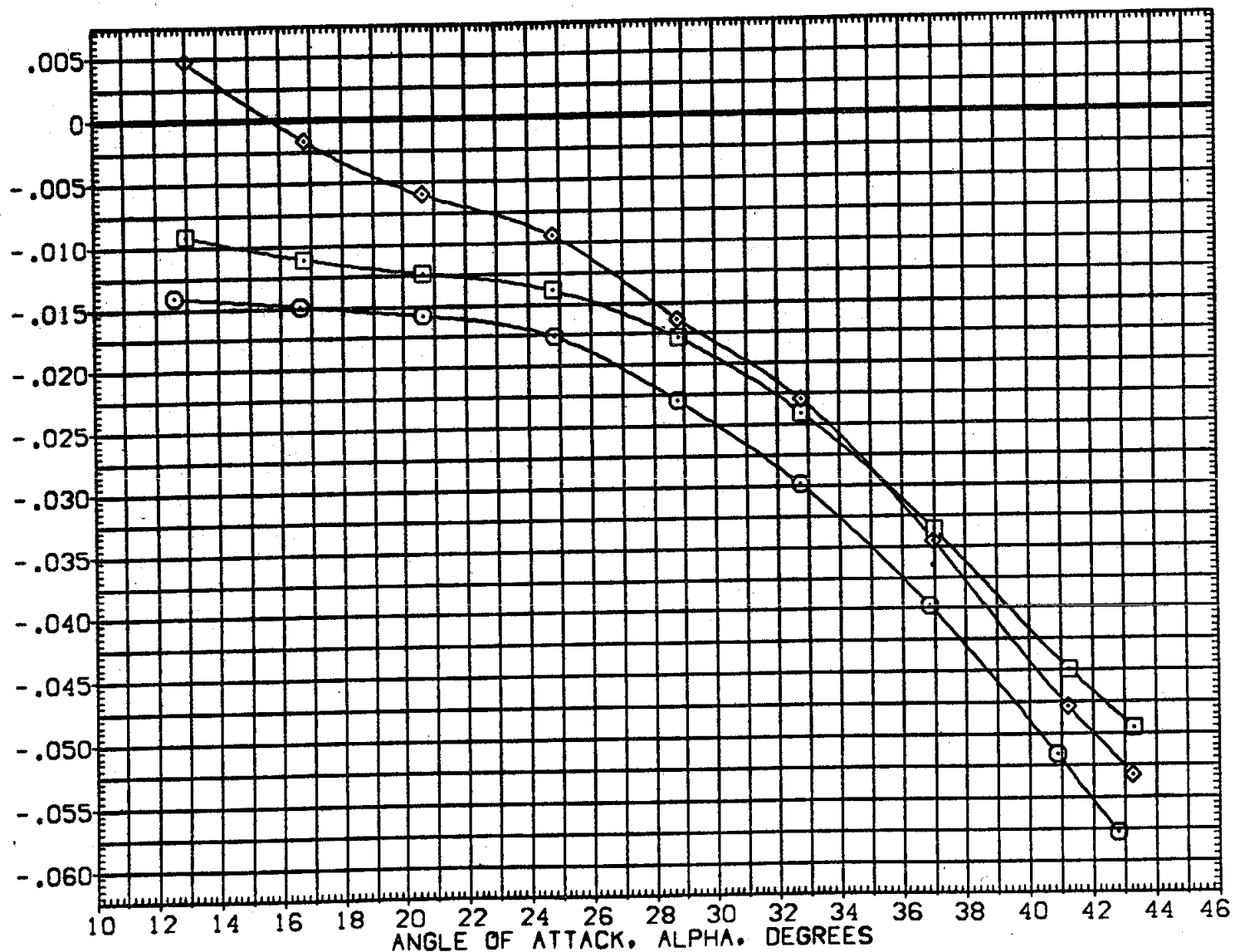


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18)	DATA NOT AVAILABLE
(DEPO12)	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO11)	B26 C9 M7 F7 V116 V8 E37 R5

SPDRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION
25.000	-11.700	.000	.000	SREF 2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF 474.8000 IN.
85.000	-11.700	.000	.000	BREF 936.7000 IN.
				XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

PITCHING MOMENT COEFFICIENT ABOUT FORWARD CG • CLMFWO

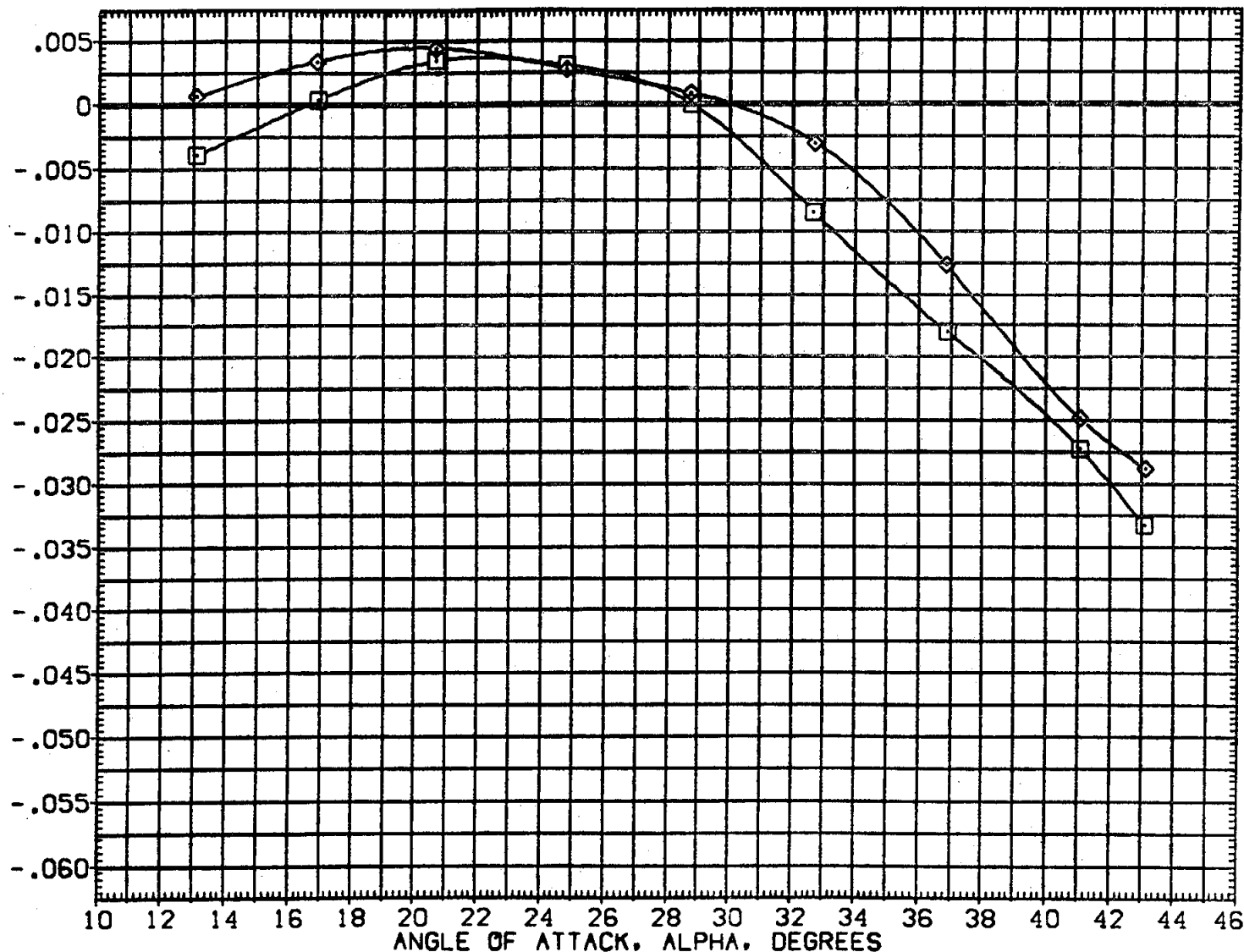


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18)	826 C9 M7 F7 V116 V8 E37 R8
(DEPO12)	826 C9 M7 F7 V116 V8 E37 R8
(DEPO11)	826 C9 M7 F7 V116 V8 E37 R8

SPOBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION
25.000	-11.700	.000	.000	SREF 2680.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF 474.8000 IN.
65.000	-11.700	.000	.000	BREF 936.7000 IN.
				XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

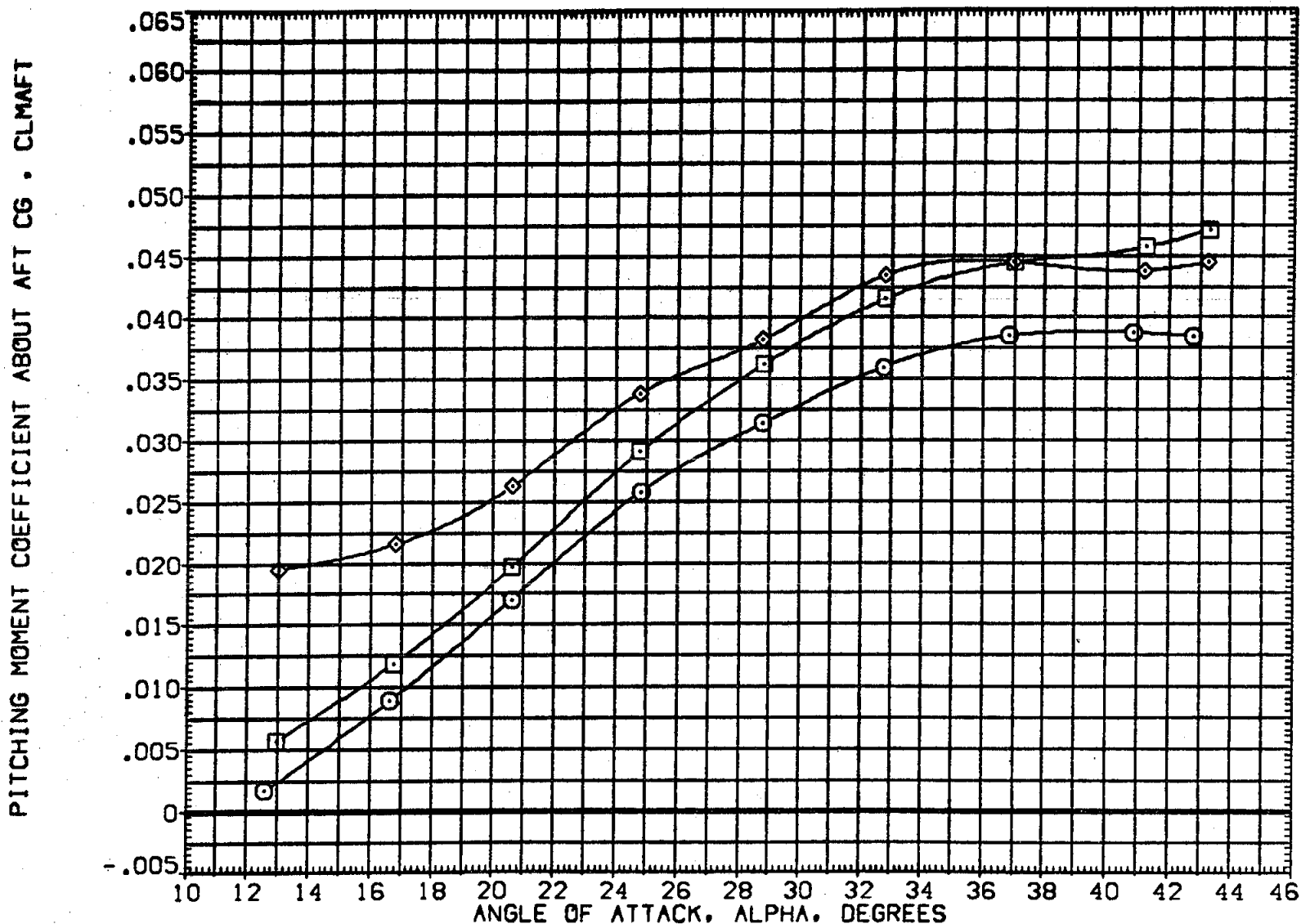


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18)	DATA NOT AVAILABLE
(DEPO12)	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO11)	B26 C9 M7 F7 V116 V8 E37 R5

SPOBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

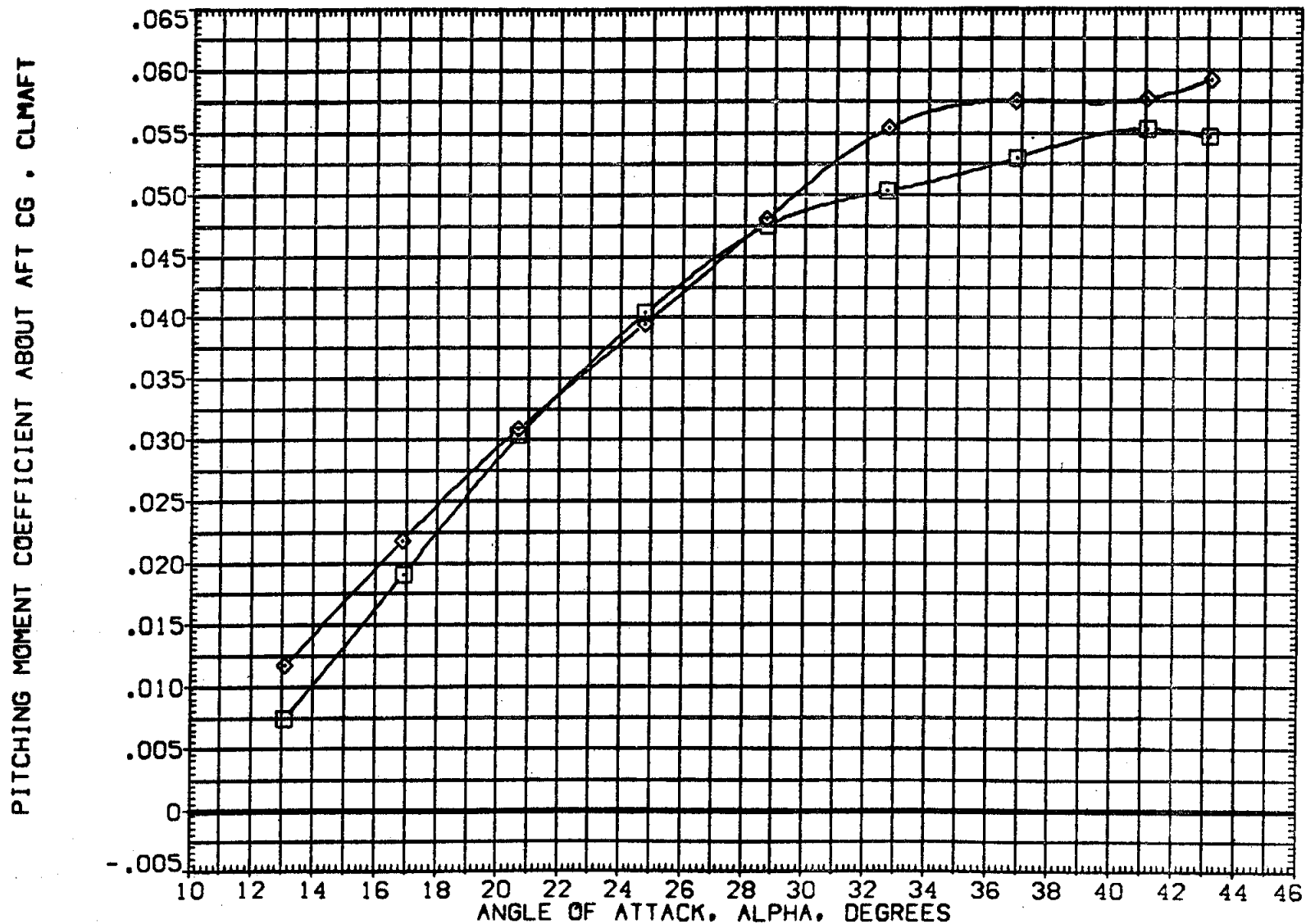


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO12)	826 C9 M7 F7 V116 V8 E37 R5
(DEPO11)	826 C9 M7 F7 V116 V8 E37 R5

SPDBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

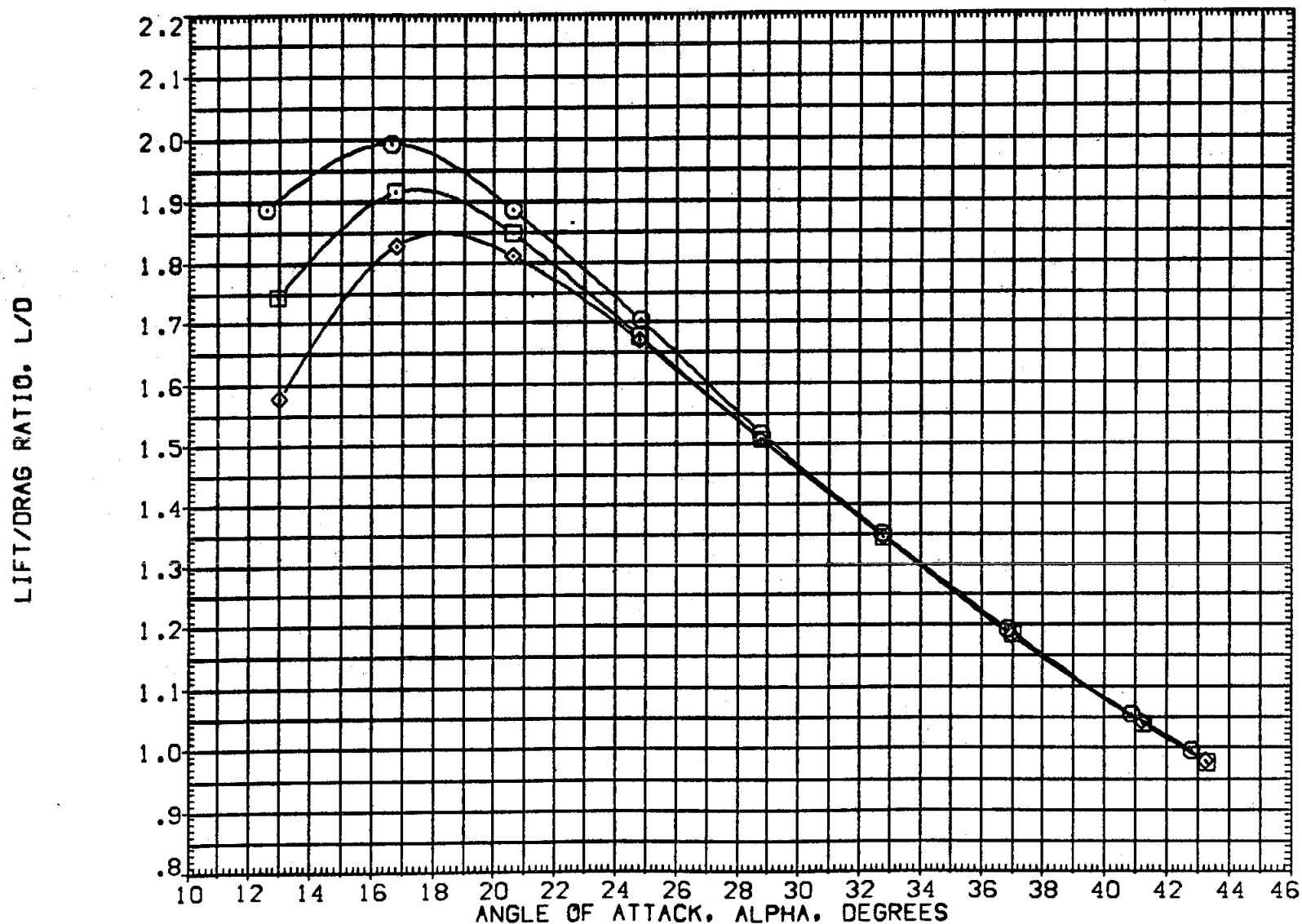


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
{DEPO10}	DATA NOT AVAILABLE
{DEPO12}	826 C9 M7 F7 W116 V8 E37 R5
{DEPO11}	826 C9 M7 F7 W116 V8 E37 R5

SPOBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

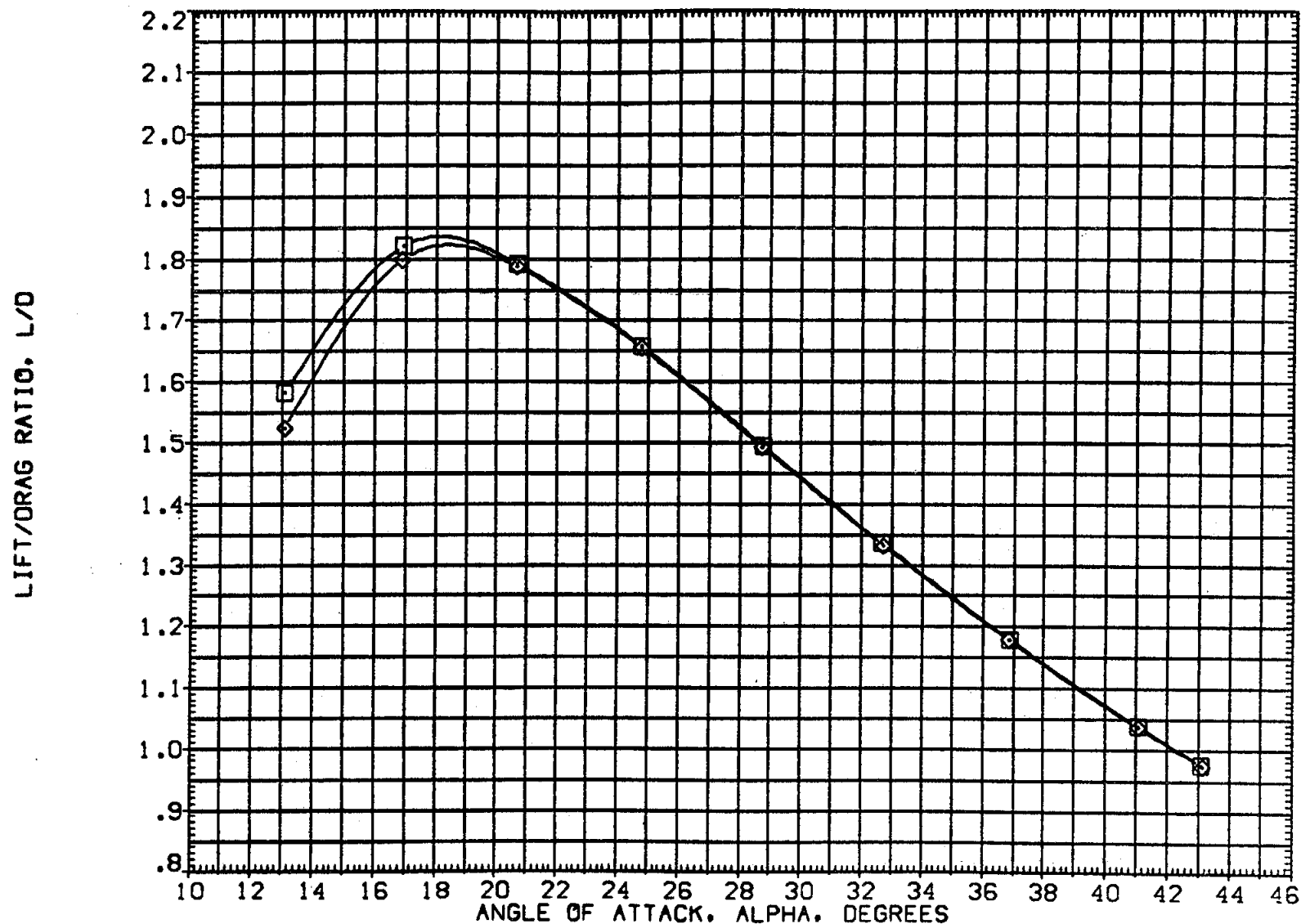


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP018)	□	B26 C9 M7 F7 V116 V8 E37 R5
(DEP012)	○	B26 C9 M7 F7 V116 V8 E37 R5
(DEP011)	◇	B26 C9 M7 F7 V116 V8 E37 R5

SPDRK	BDFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

NORMAL FORCE COEFFICIENT, CN

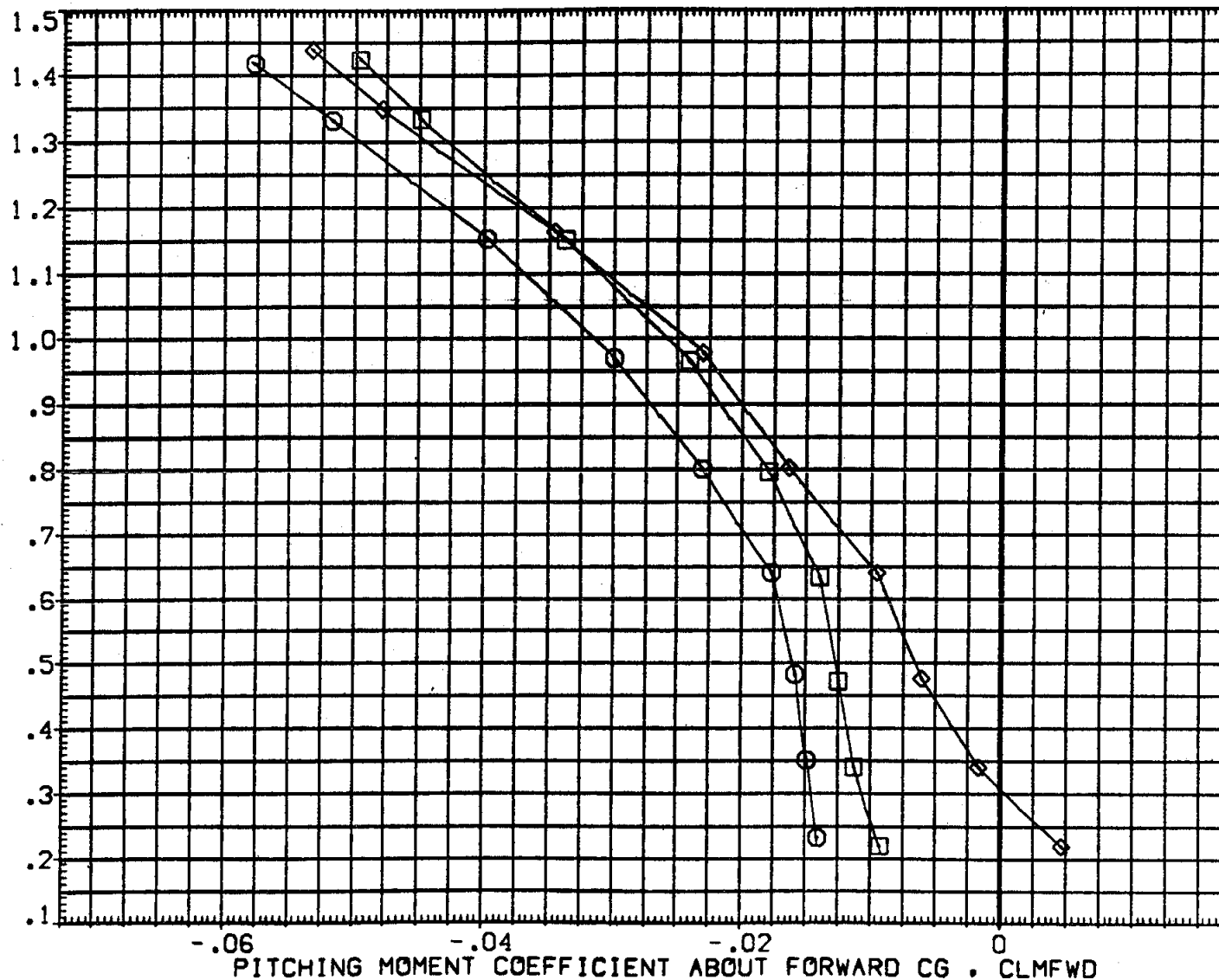


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP018)	DATA NOT AVAILABLE
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5

SPOBRK	BDFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

NORMAL FORCE COEFFICIENT, CN

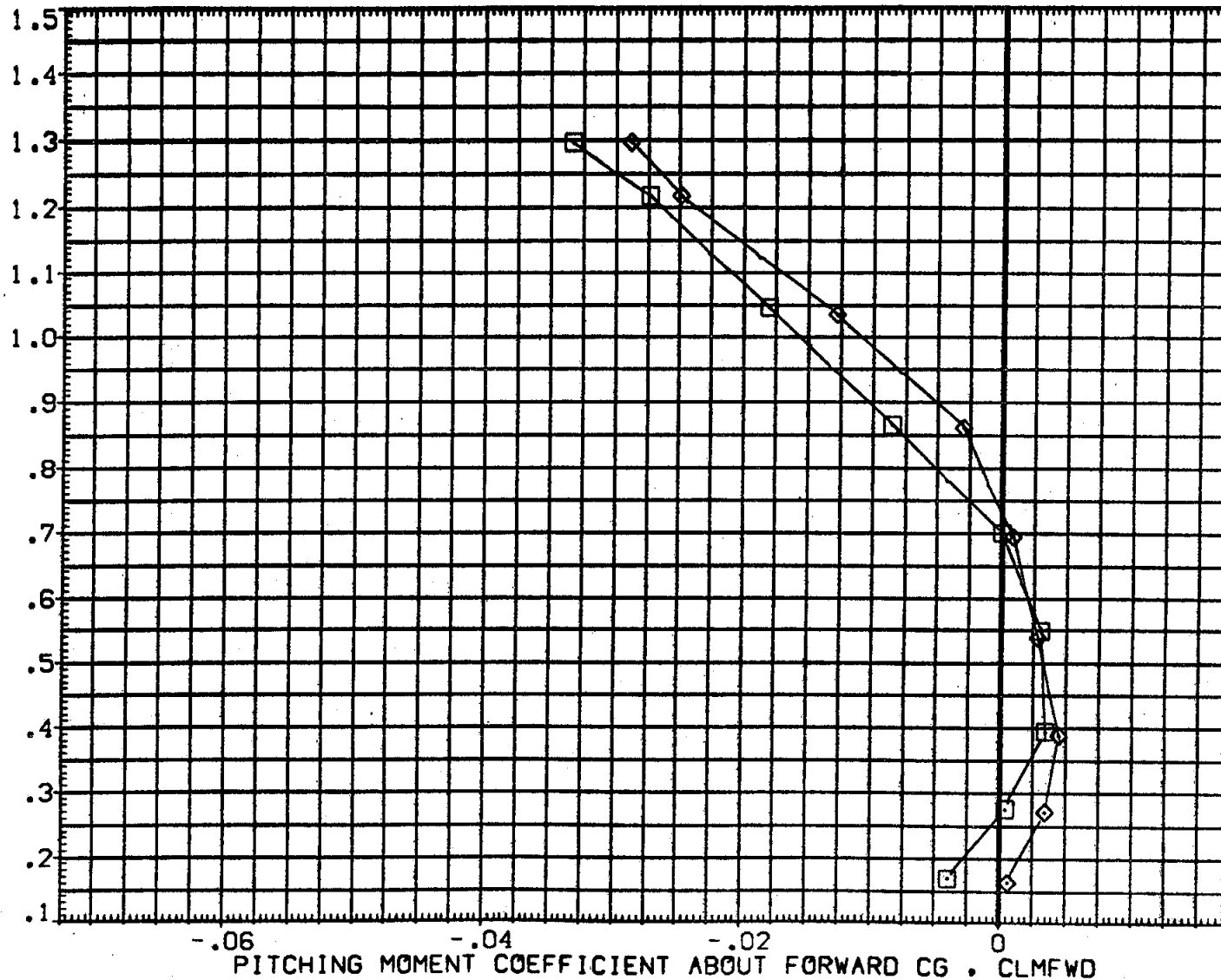


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEPO18) ○	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO12) □	B26 C9 M7 F7 V116 V8 E37 R5
(DEPO11) ◇	B26 C9 M7 F7 V116 V8 E37 R5

SPDBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

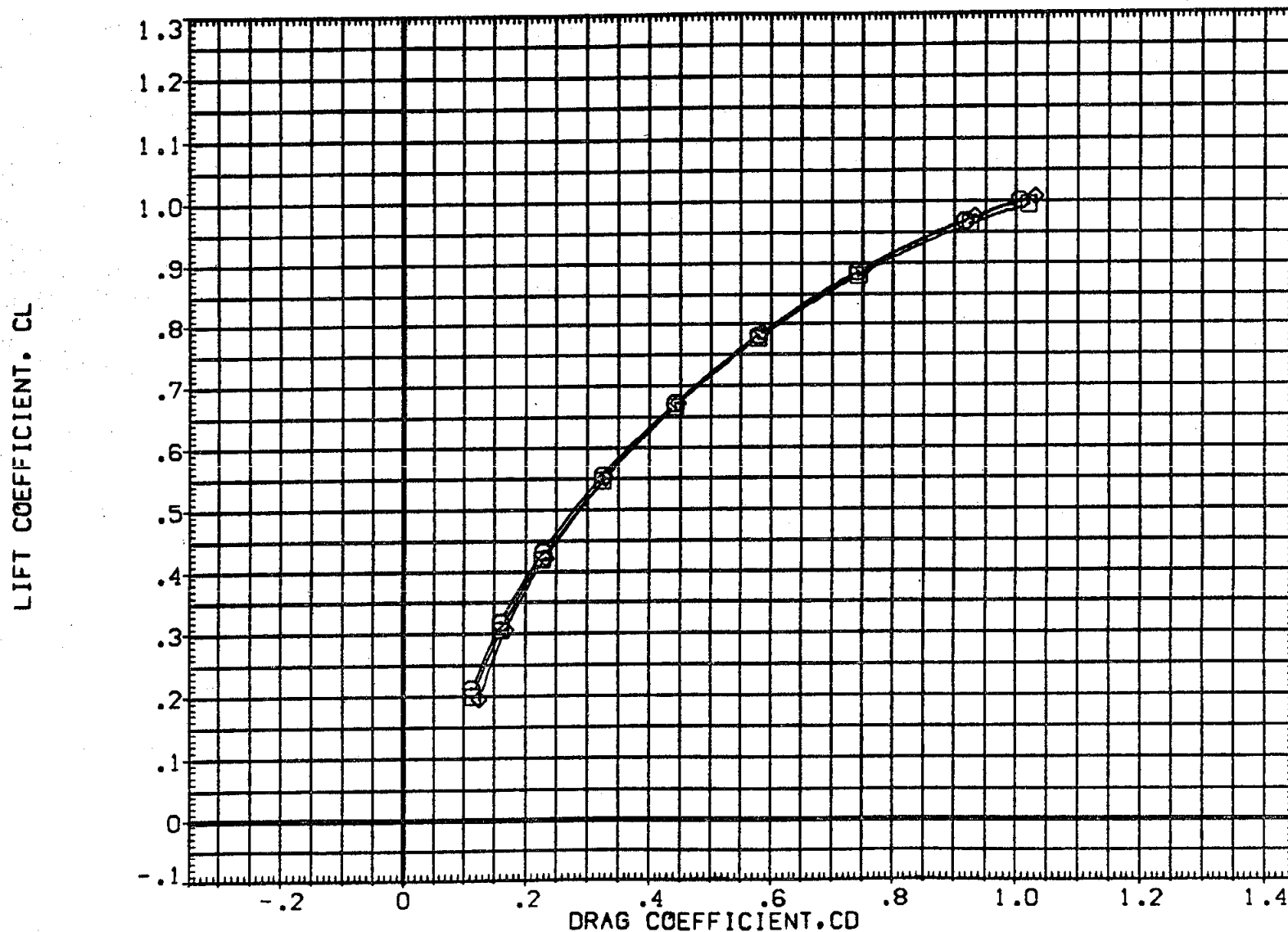


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP018)	DATA NOT AVAILABLE
(DEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(DEP011)	B26 C9 M7 F7 V116 V8 E37 R5

SPDRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
25.000	-11.700	.000	.000	SREF	2690.0000	50.FT.
55.000	-11.700	.000	.000	LREF	474.8000	IN.
85.000	-11.700	.000	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

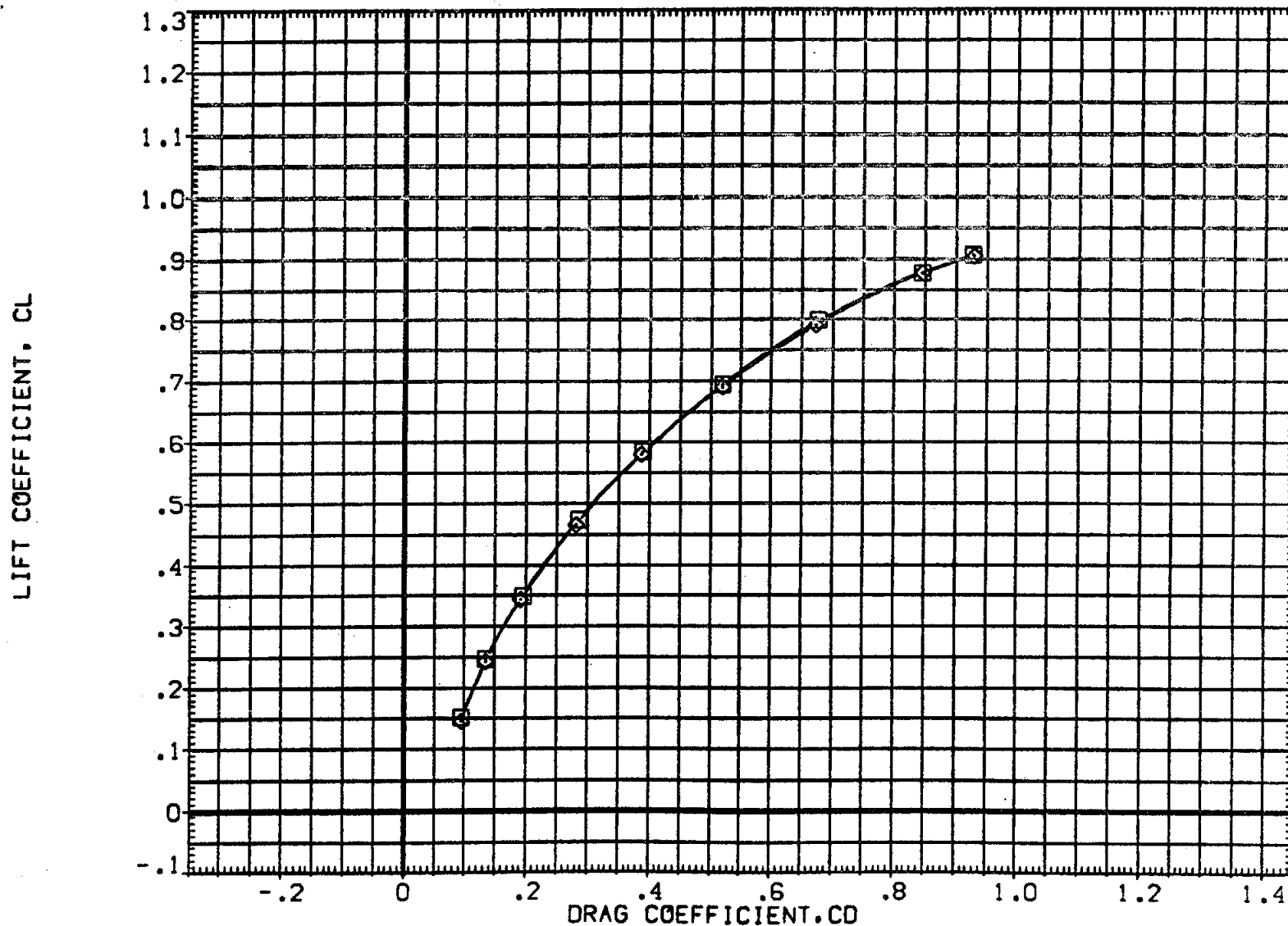
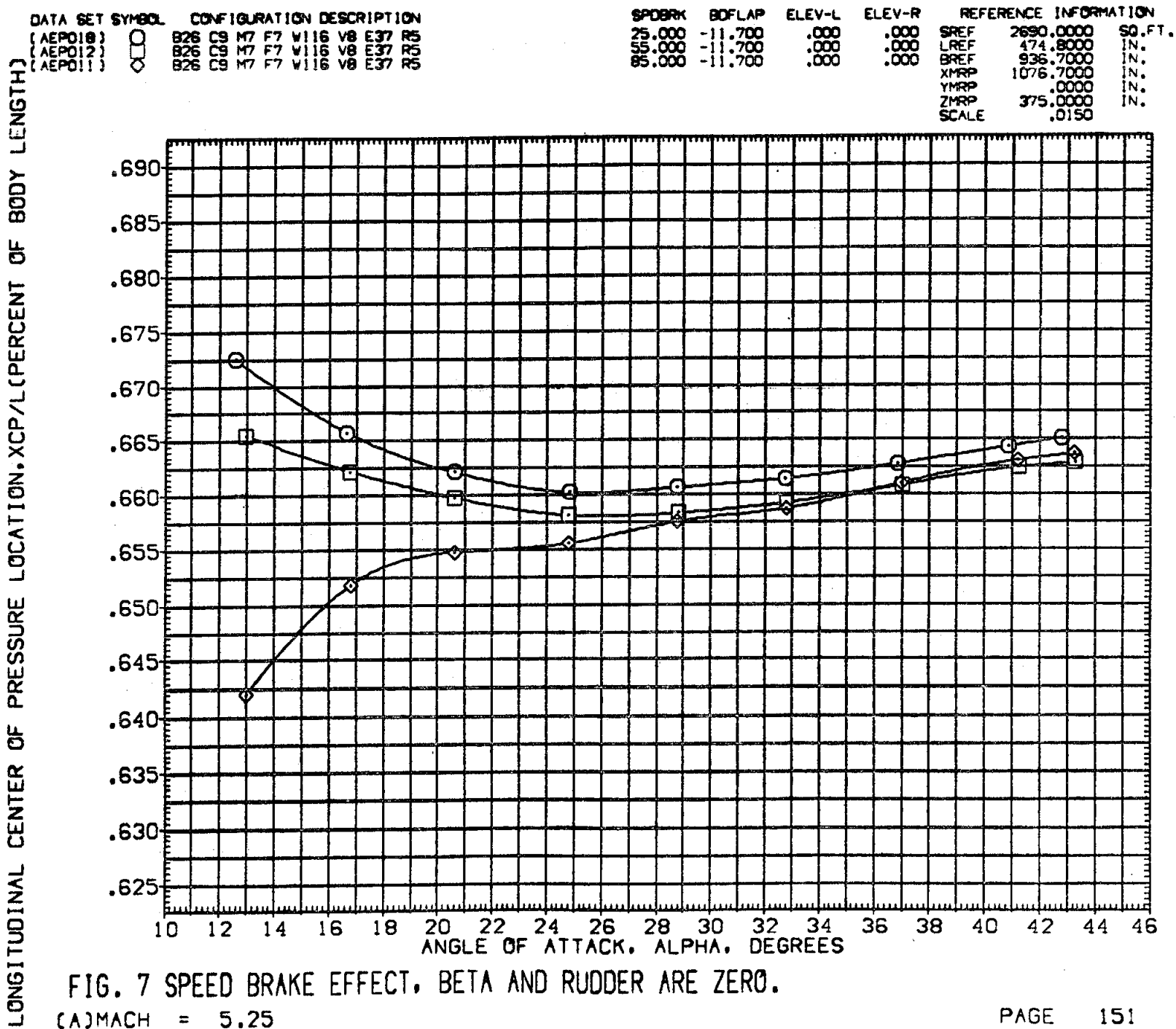


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.
(B)MACH = 10.27



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP018)	DATA NOT AVAILABLE
(AEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP011)	B26 C9 M7 F7 V116 V8 E37 R5

SPOBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
25.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
55.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

LONGITUDINAL CENTER OF PRESSURE LOCATION, XCP/L (PERCENT OF BODY LENGTH)

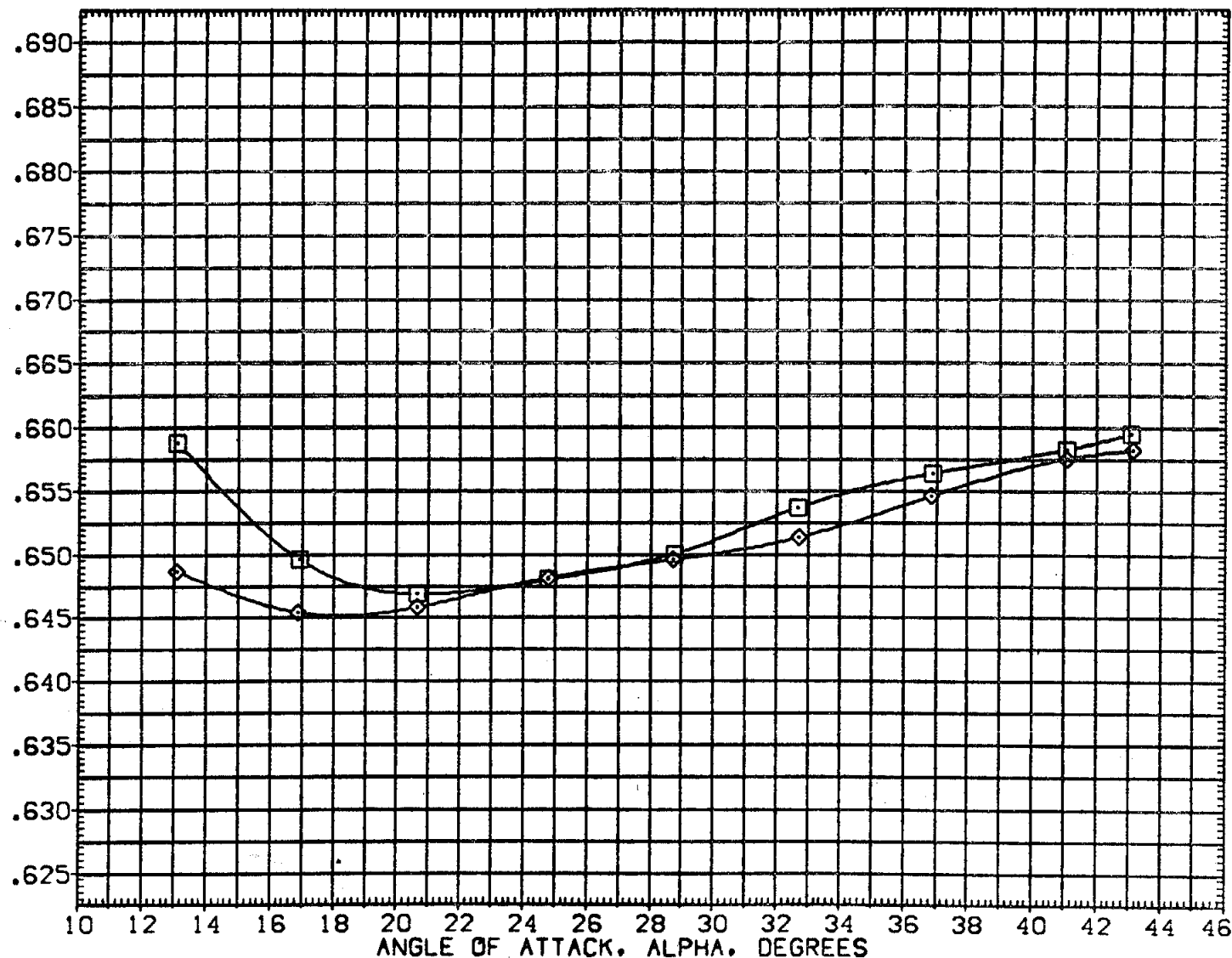


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.
(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSPDBK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
(GEP112)	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPD8RK=25	55.000	-11.700	.000	.000	SREF	2690.0000	50.FT.
(GEP111)	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPD8RK=25	85.000	-11.700	.000	.000	LREF	474.8000	IN.
(GEP211)	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPD8RK=55	85.000	-11.700	.000	.000	BREF	936.7000	IN.
(GEP218)	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPD8RK=55	25.000	-11.700	.000	.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	375.0000	IN.
						SCALE	.0150	

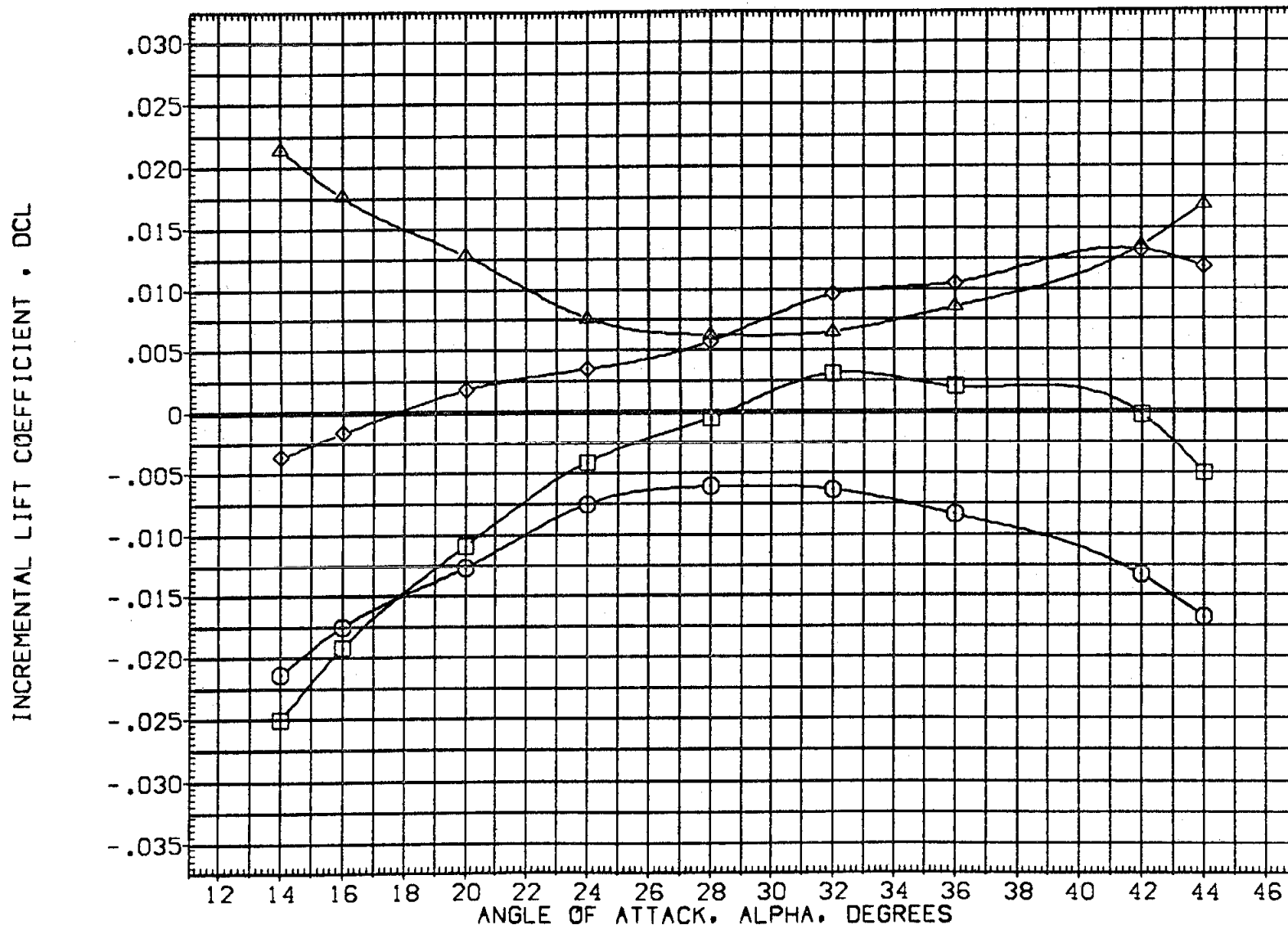


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSPDBK	BDFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
(GEP112)	DATA NOT AVAILABLE	55.000	-11.700	.000	.000	SREF	2690.0000	SQ.FT.
(GEP111)	DATA NOT AVAILABLE	85.000	-11.700	.000	.000	LREF	474.8000	IN.
(GEP211)	B26 C9 M7 F7 W116 V8 E37 R5, BASELINE SPOBRK=55	85.000	-11.700	.000	.000	BREF	936.7000	IN.
(GEP218)	DATA NOT AVAILABLE	25.000	-11.700	.000	.000	XMPP	1076.7000	IN.
						YMPP	.0000	IN.
						ZMPP	375.0000	IN.
						SCALE	.0150	

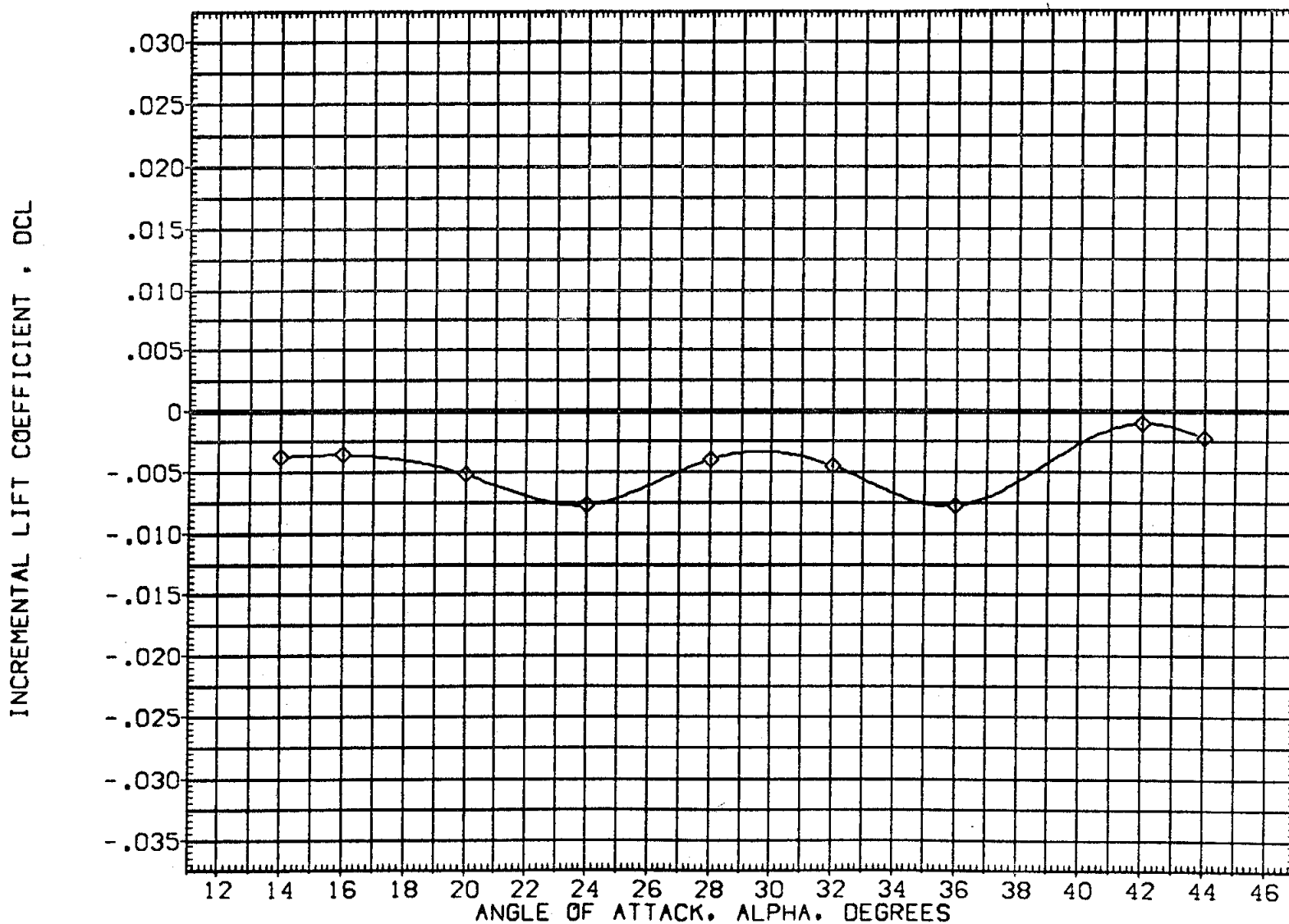


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSPOBK	BDFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
(GEP112)	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPOBRK=25	55.000	-11.700	.000	.000	SREF	2690.0000	SQ.FT.
(GEP111)	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPOBRK=25	85.000	-11.700	.000	.000	LREF	474.8000	IN.
(GEP211)	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPOBRK=55	85.000	-11.700	.000	.000	BREF	936.7000	IN.
(GEP218)	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPOBRK=55	25.000	-11.700	.000	.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	375.0000	IN.
						SCALE	.0150	

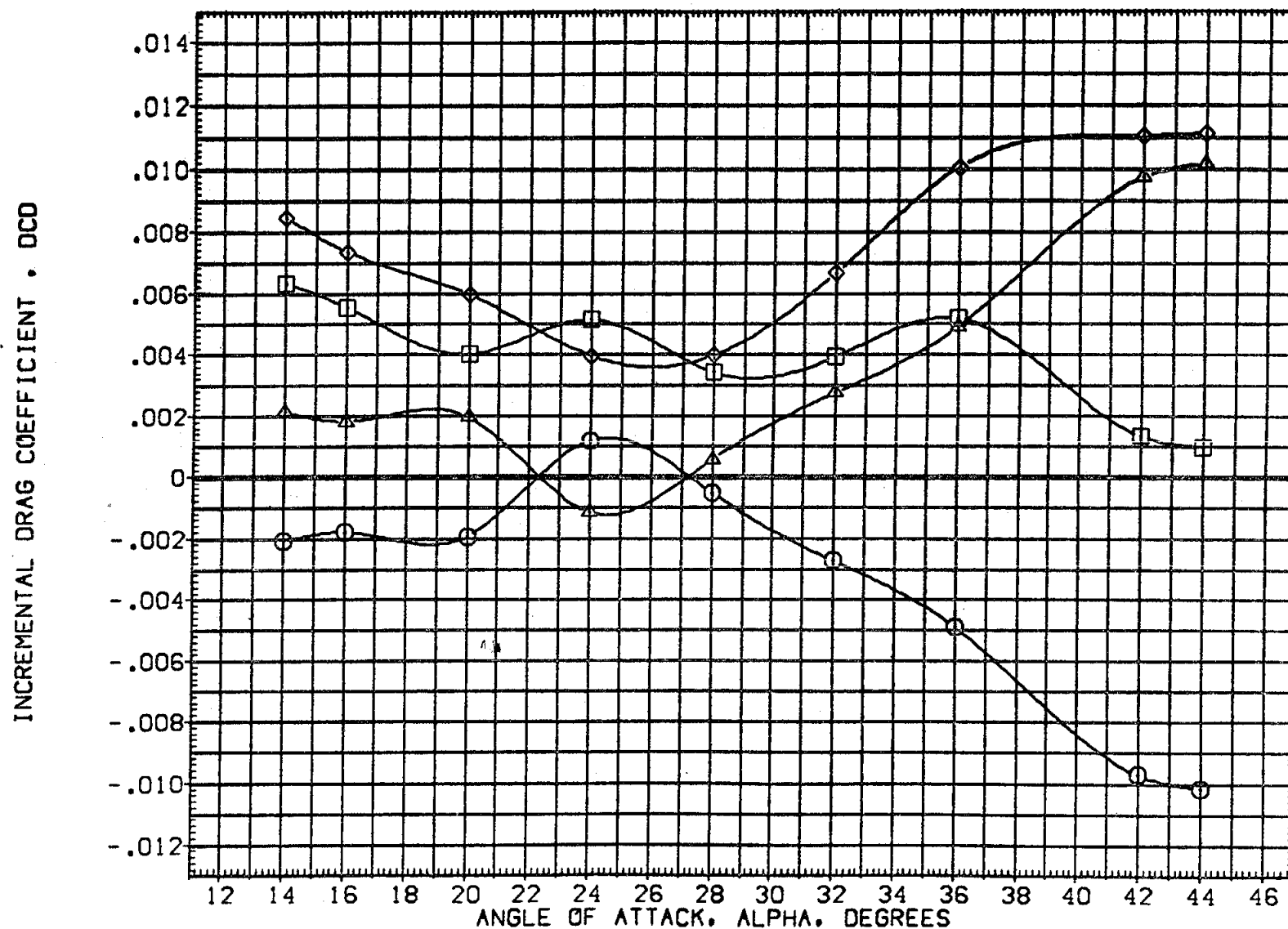


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSPOBK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
{GEP112}	DATA NOT AVAILABLE	55.000	-11.700	.000	.000	SREF	2690.0000	50.FT.
{GEP111}	DATA NOT AVAILABLE	85.000	-11.700	.000	.000	LREF	474.8000	IN.
{GEP211}	B26 C9 M7 F7 W116 V8 E37 R5, BASELINE SPOBRK-55	85.000	-11.700	.000	.000	BREF	936.7000	IN.
{GEP218}	DATA NOT AVAILABLE	25.000	-11.700	.000	.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	375.0000	IN.
						SCALE	.0150	

INCREMENTAL DRAG COEFFICIENT • DCD

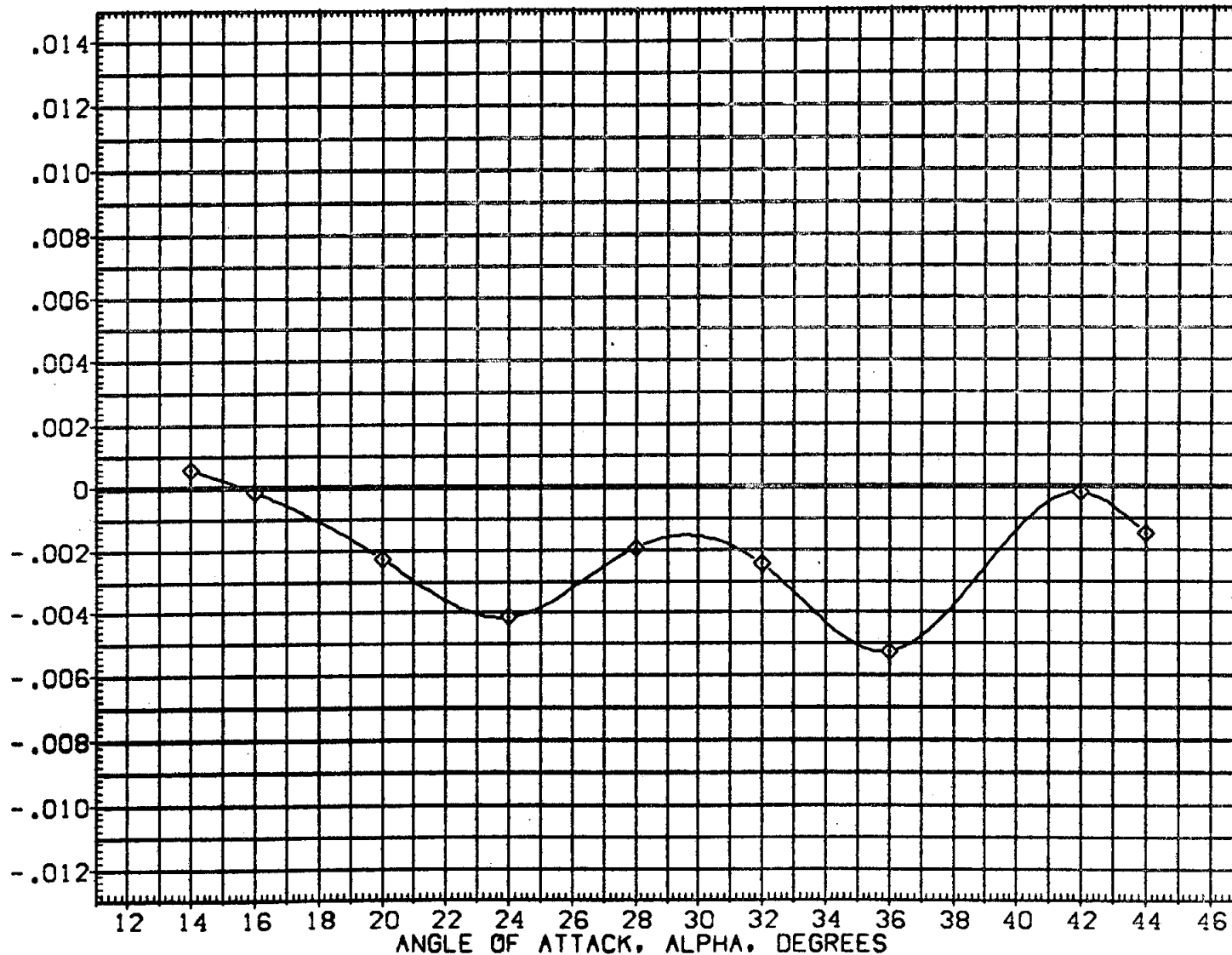


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSPOBK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
(GEP112)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK=25	55.000	-11.700	.000	.000	SREF	2690.0000	50. FT.
(GEP111)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK=25	85.000	-11.700	.000	.000	LREF	474.8000	IN.
(GEP211)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK=55	85.000	-11.700	.000	.000	BREF	936.7000	IN.
(GEP218)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK=55	25.000	-11.700	.000	.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	375.0000	IN.
						SCALE	.0150	

INCREMENTAL AXIAL FORCE COEFFICIENT • DCA

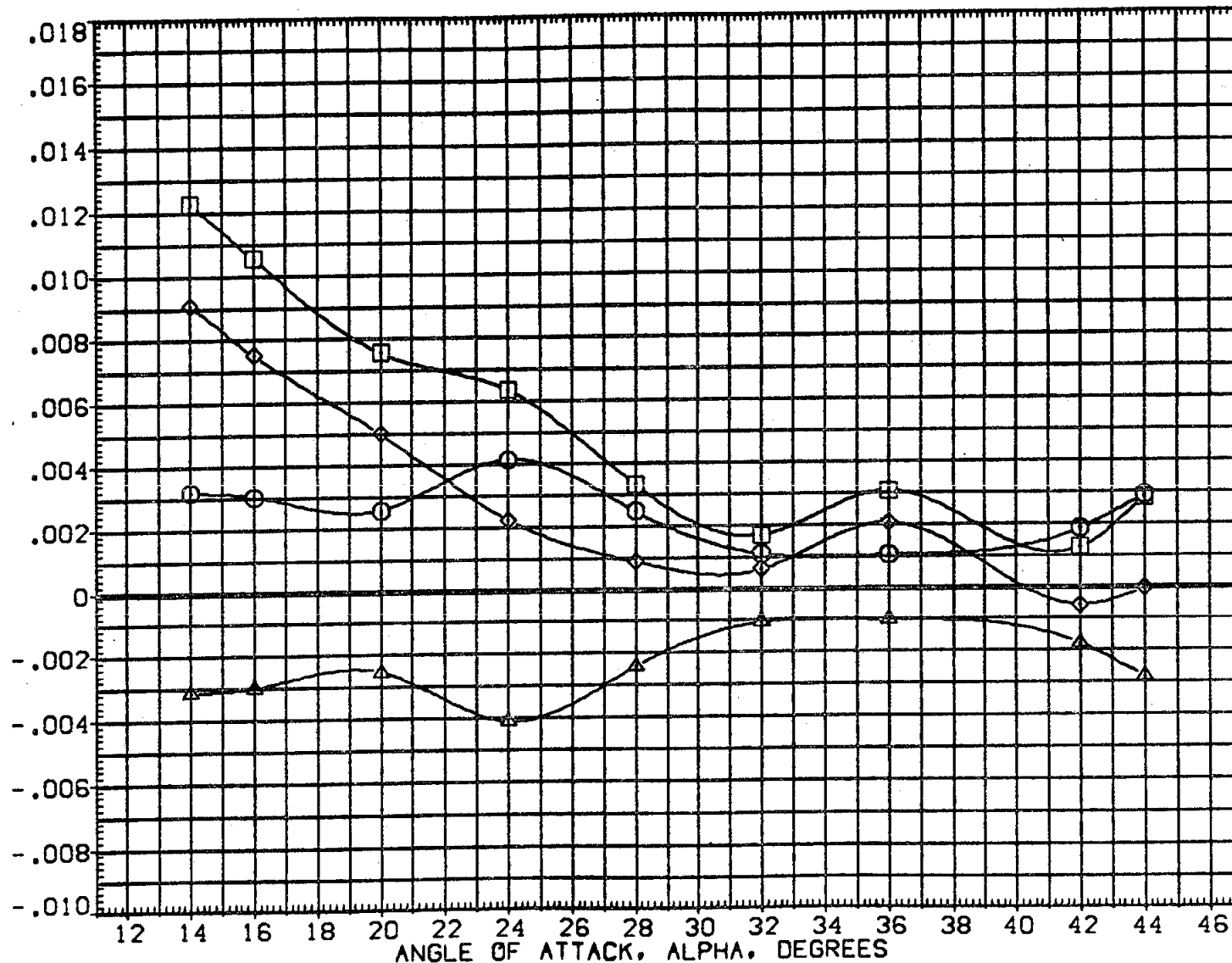


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SPDRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
(GEP112)	DATA NOT AVAILABLE	55.000	-11.700	.000	.000	SREF	2690.0000	SQ.FT.
(GEP111)	DATA NOT AVAILABLE	85.000	-11.700	.000	.000	LREF	474.8000	IN.
(GEP211)	926 C9 M7 F7 V116 V8 E37 RS. BASELINE SPDRK=55	85.000	-11.700	.000	.000	BREF	936.7000	IN.
(GEP218)	DATA NOT AVAILABLE	25.000	-11.700	.000	.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	375.0000	IN.
						SCALE	.0150	

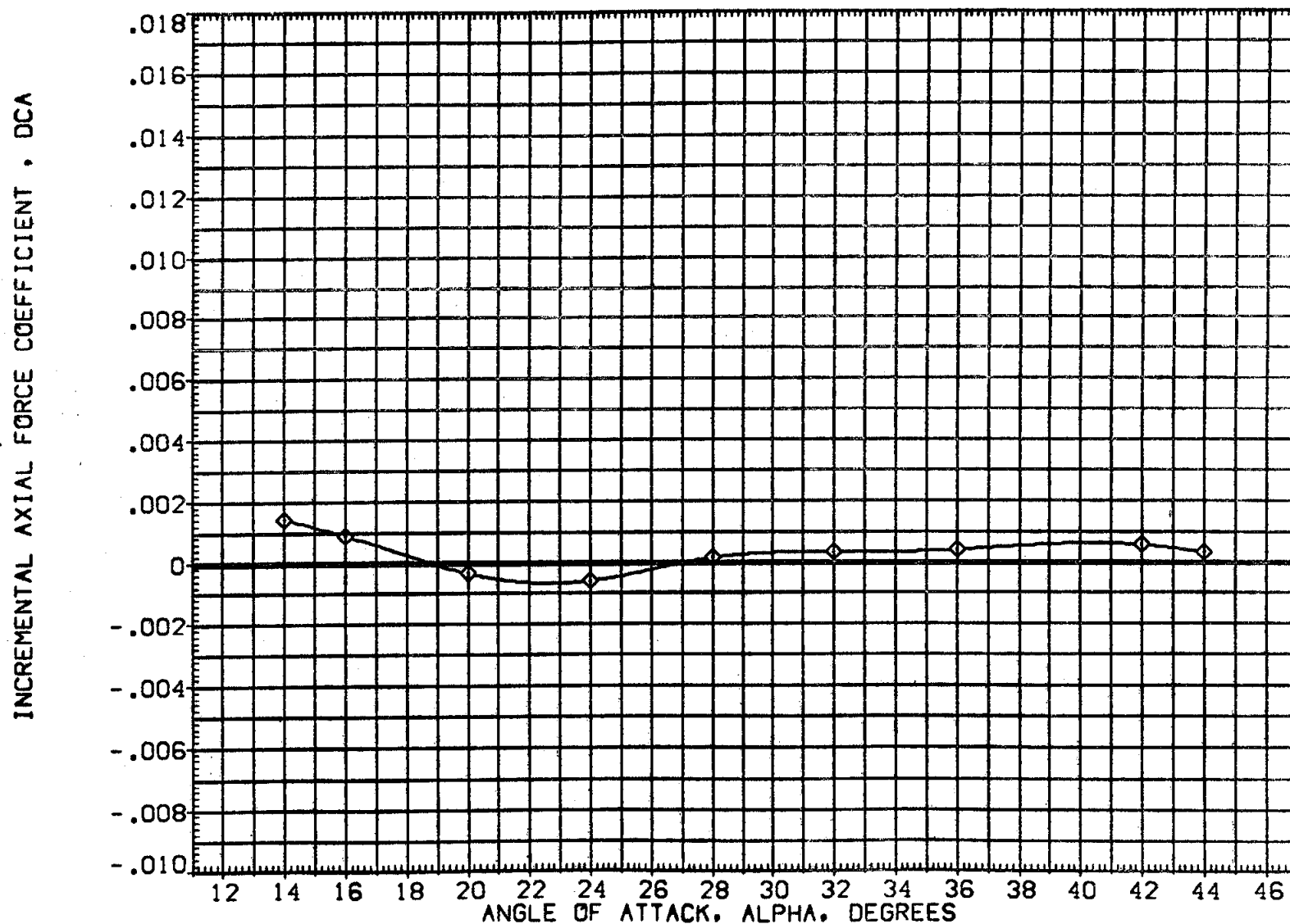


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DSPDBK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
(GEP112)	□	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPOBRK=25	55.000	-11.700	.000	.000	SREF	2690.0000	SQ.FT.
(GEP111)	○	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPOBRK=25	85.000	-11.700	.000	.000	LREF	474.8000	IN.
(GEP211)	◇	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPOBRK=55	85.000	-11.700	.000	.000	BREF	936.7000	IN.
(GEP218)	△	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPOBRK=55	25.000	-11.700	.000	.000	XMRP	1076.7000	IN.
							YMRP	.0000	IN.
							ZMRP	375.0000	IN.
							SCALE	.0150	

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT • DCAF

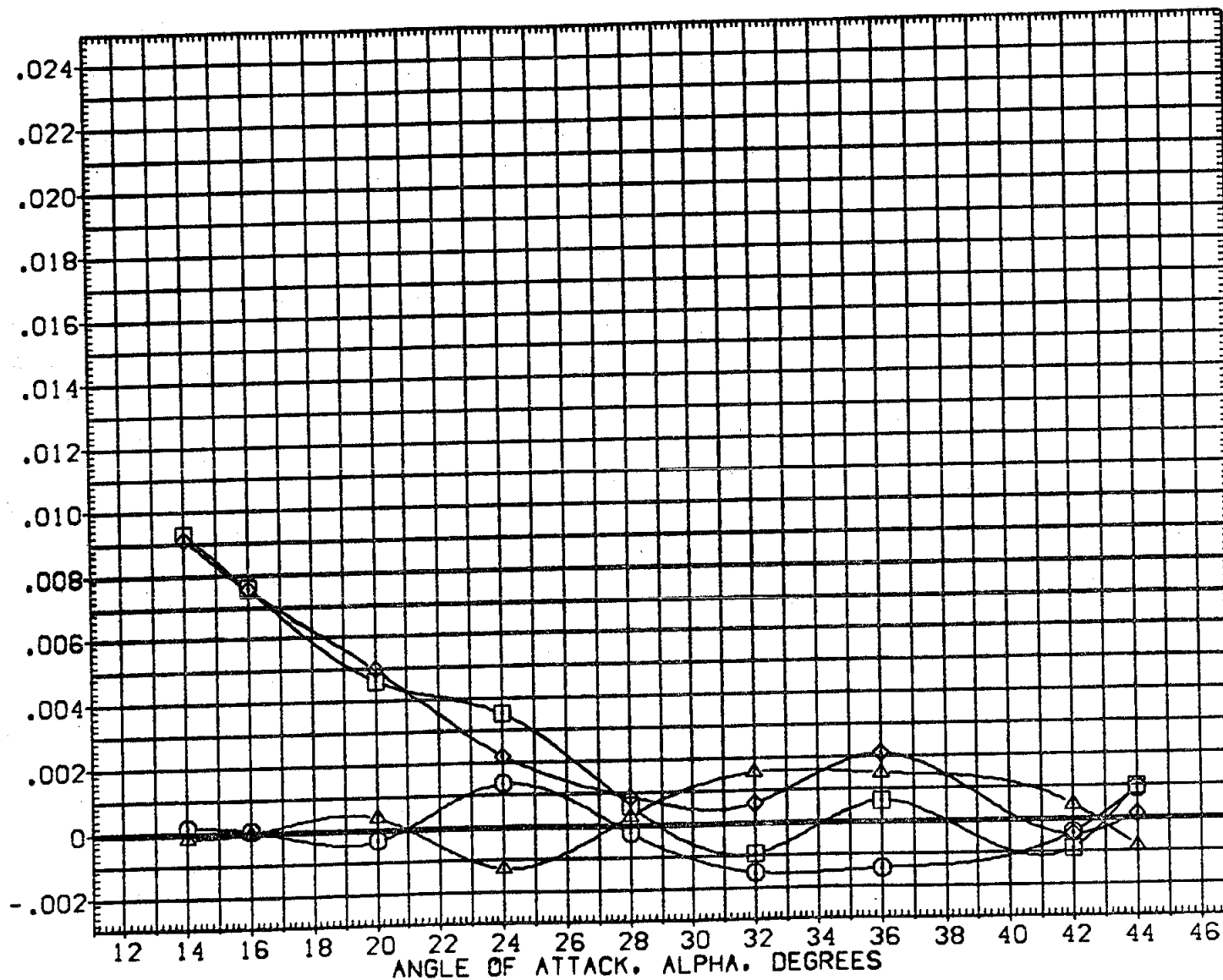


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SPDRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
(GEP112)	DATA NOT AVAILABLE	55.000	-11.700	.000	.000	SREF	2690.0000	SQ.FT.
(GEP111)	DATA NOT AVAILABLE	85.000	-11.700	.000	.000	LREF	474.8000	IN.
(GEP211)	B26 C9 M7 F7 V116 V8 E37 R5. BASELINE SPDRK=55	85.000	-11.700	.000	.000	BREF	936.7000	IN.
(GEP218)	DATA NOT AVAILABLE	25.000	-11.700	.000	.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	375.0000	IN.
						SCALE	.0150	

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT - DCAF

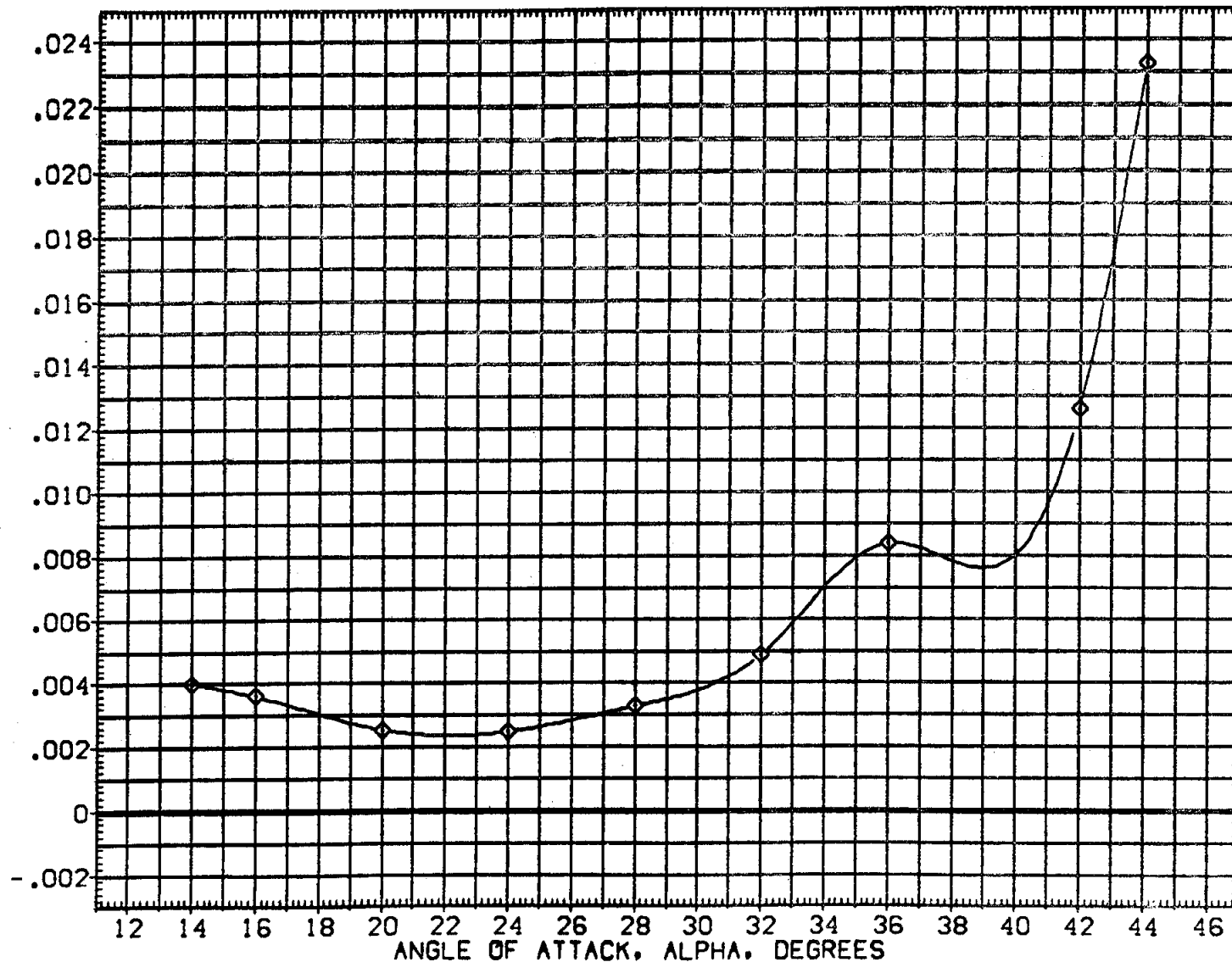


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSPDBK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
(GEP112)	B26 C9 M7 F7 V116 V8 E37 RS, BASELINE SPOBRK-25	55.000	-11.700	.000	.000	SREF	2690.0000	SQ.FT.
(GEP111)	B26 C9 M7 F7 V116 V8 E37 RS, BASELINE SPOBRK-25	65.000	-11.700	.000	.000	LREF	474.8000	IN.
(GEP211)	B26 C9 M7 F7 V116 V8 E37 RS, BASELINE SPOBRK-55	85.000	-11.700	.000	.000	BREF	936.7000	IN.
(GEP219)	B26 C9 M7 F7 V116 V8 E37 RS, BASELINE SPOBRK-55	25.000	-11.700	.000	.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	375.0000	IN.
						SCALE	.0150	

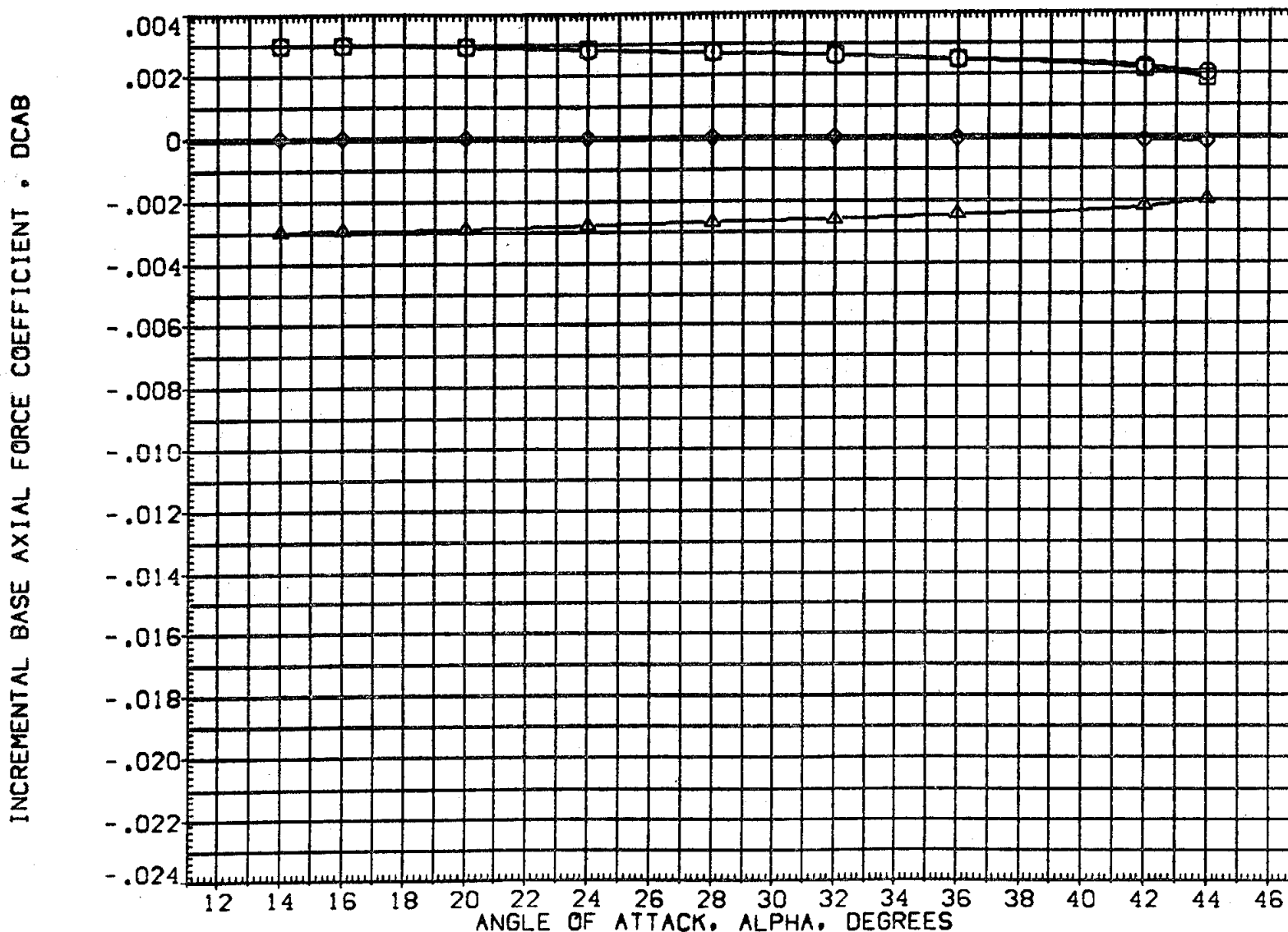


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(GEP112) □ DATA NOT AVAILABLE
 (GEP111) □ DATA NOT AVAILABLE
 (GEP211) ◇ 826 C9 M7 F7 W116 V8 E37 R5. BASELINE SPOBRK=55
 (GEP218) △ DATA NOT AVAILABLE

DSPOBRK	BDFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
55.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
85.000	-11.700	.000	.000	LREF	474.8000 IN.
85.000	-11.700	.000	.000	BREF	936.7000 IN.
25.000	-11.700	.000	.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

INCREMENTAL BASE AXIAL FORCE COEFFICIENT • DCAB

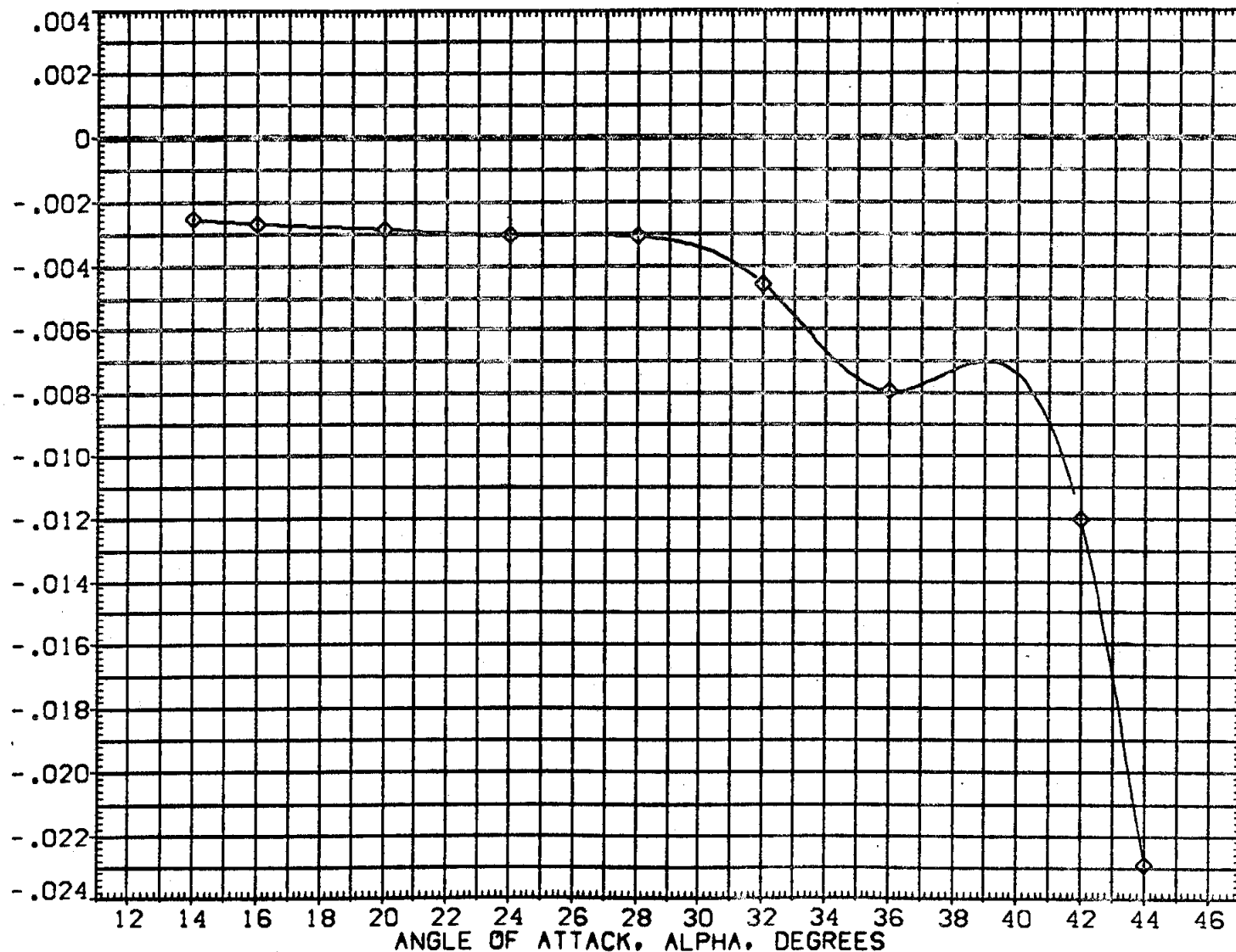


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSPOBK	BDFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
(GEP112)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK-25	55.000	-1.700	.000	.000	SREF	2690.0000	50.FT.
(GEP111)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK-25	85.000	-1.700	.000	.000	LREF	474.8000	IN.
(GEP211)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK-55	85.000	-1.700	.000	.000	BREF	936.7000	IN.
(GEP210)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK-55	25.000	-1.700	.000	.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	375.0000	IN.
						SCALE	.0150	

INCREMENTAL NORMAL FORCE COEFFICIENT - DCN

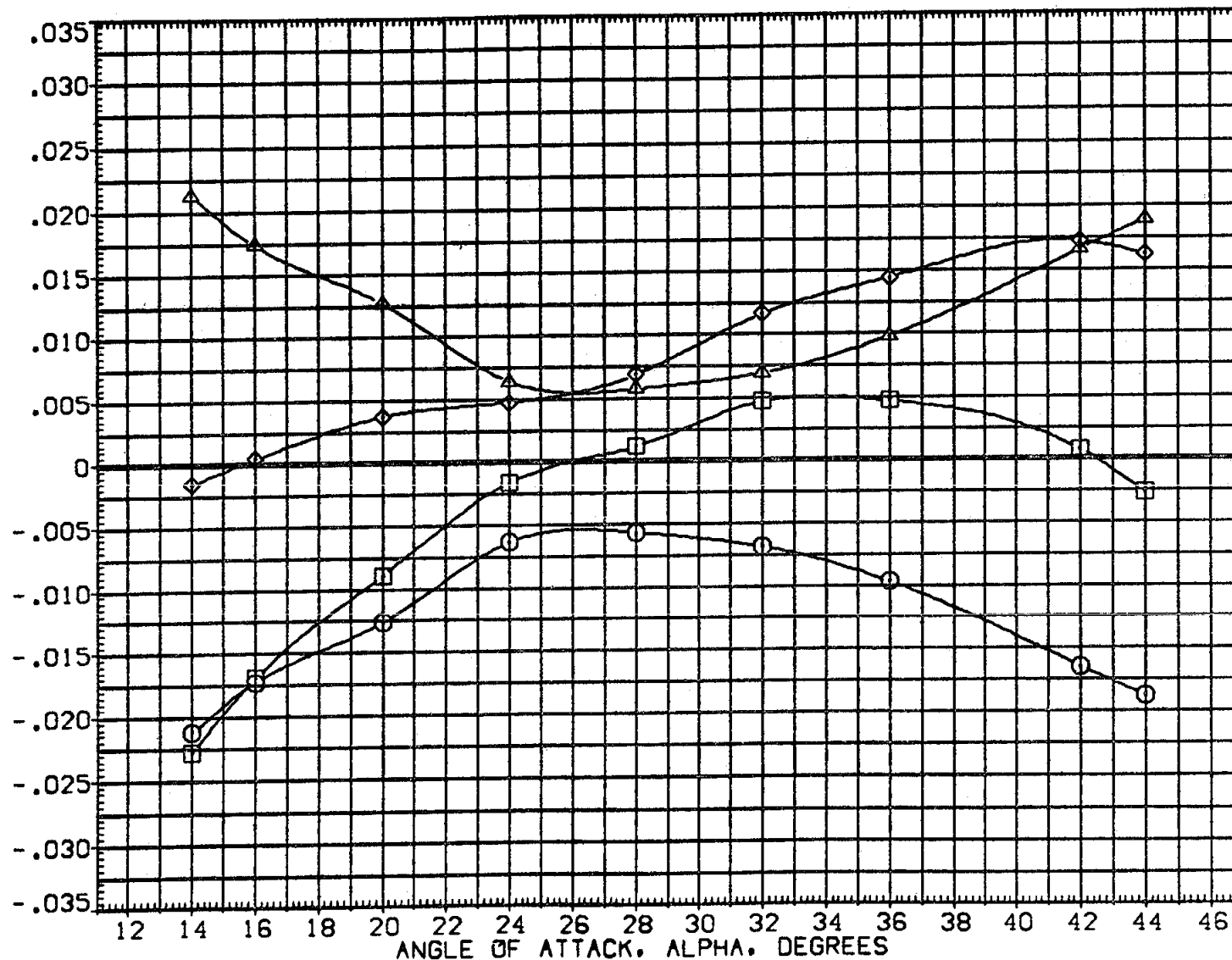


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSP08K	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
(GEP112)	DATA NOT AVAILABLE	55.000	-11.700	.000	.000	SREF	2690.0000	SQ.FT.
(GEP111)	DATA NOT AVAILABLE	85.000	-11.700	.000	.000	LREF	474.8000	IN.
(GEP211)	B26 C9 M7 F7 V116 V8 E37 R5. BASELINE SPOBRK=55	85.000	-11.700	.000	.000	BREF	936.7000	IN.
(GEP218)	DATA NOT AVAILABLE	25.000	-11.700	.000	.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	375.0000	IN.
						SCALE	.0150	

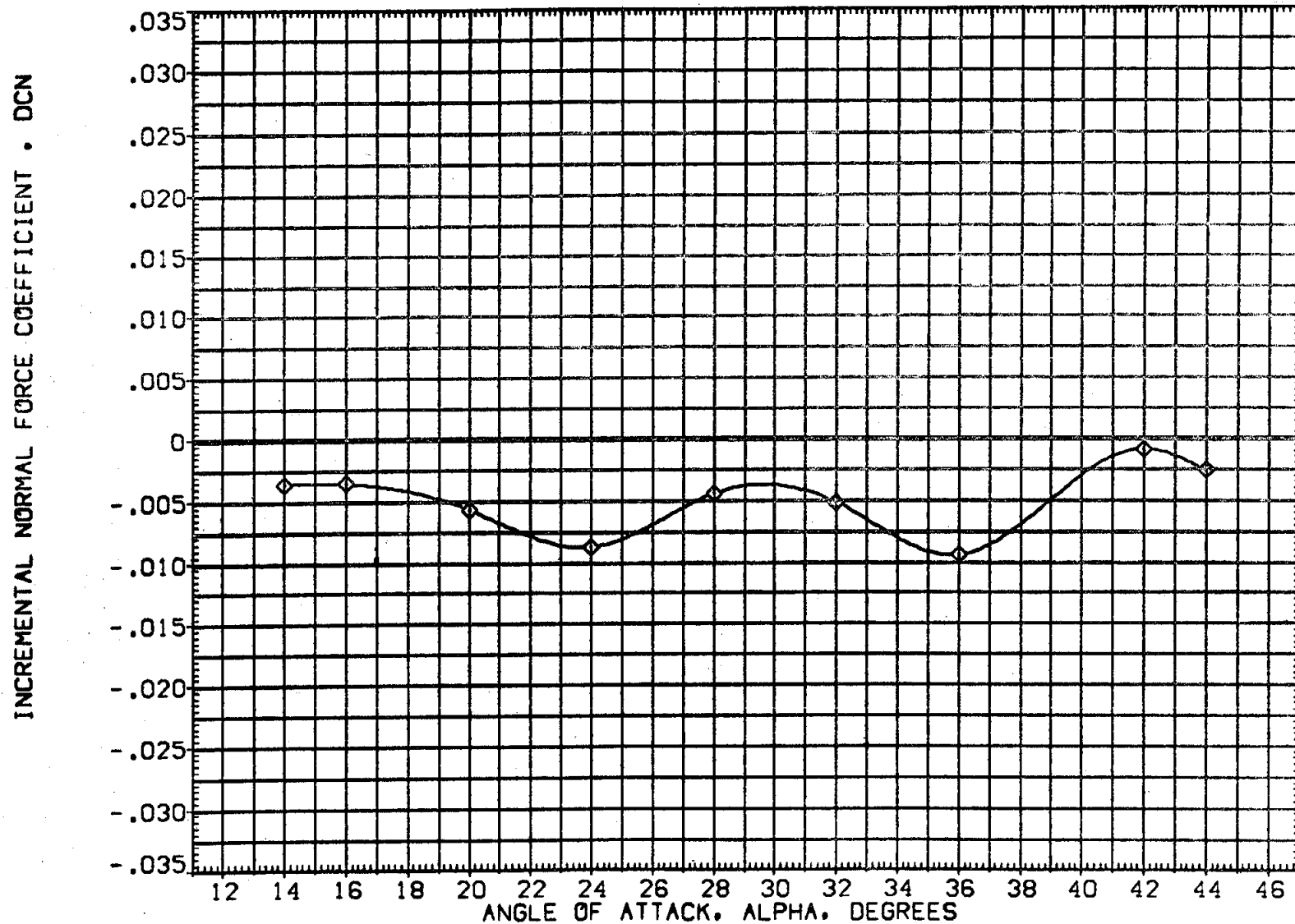


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSPDBK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
(GEP112)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK=25	55.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
(GEP111)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK=25	85.000	-11.700	.000	.000	LREF	474.8000 IN.
(GEP211)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK=55	85.000	-11.700	.000	.000	BREF	936.7000 IN.
(GEP218)	826 C9 M7 F7 V116 V8 E37 RS. BASELINE SPOBRK=55	25.000	-11.700	.000	.000	XMRP	1076.7000 IN.
						YMRP	.0000 IN.
						ZMRP	375.0000 IN.
						SCALE	.0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT FWD CG • DCMFWD

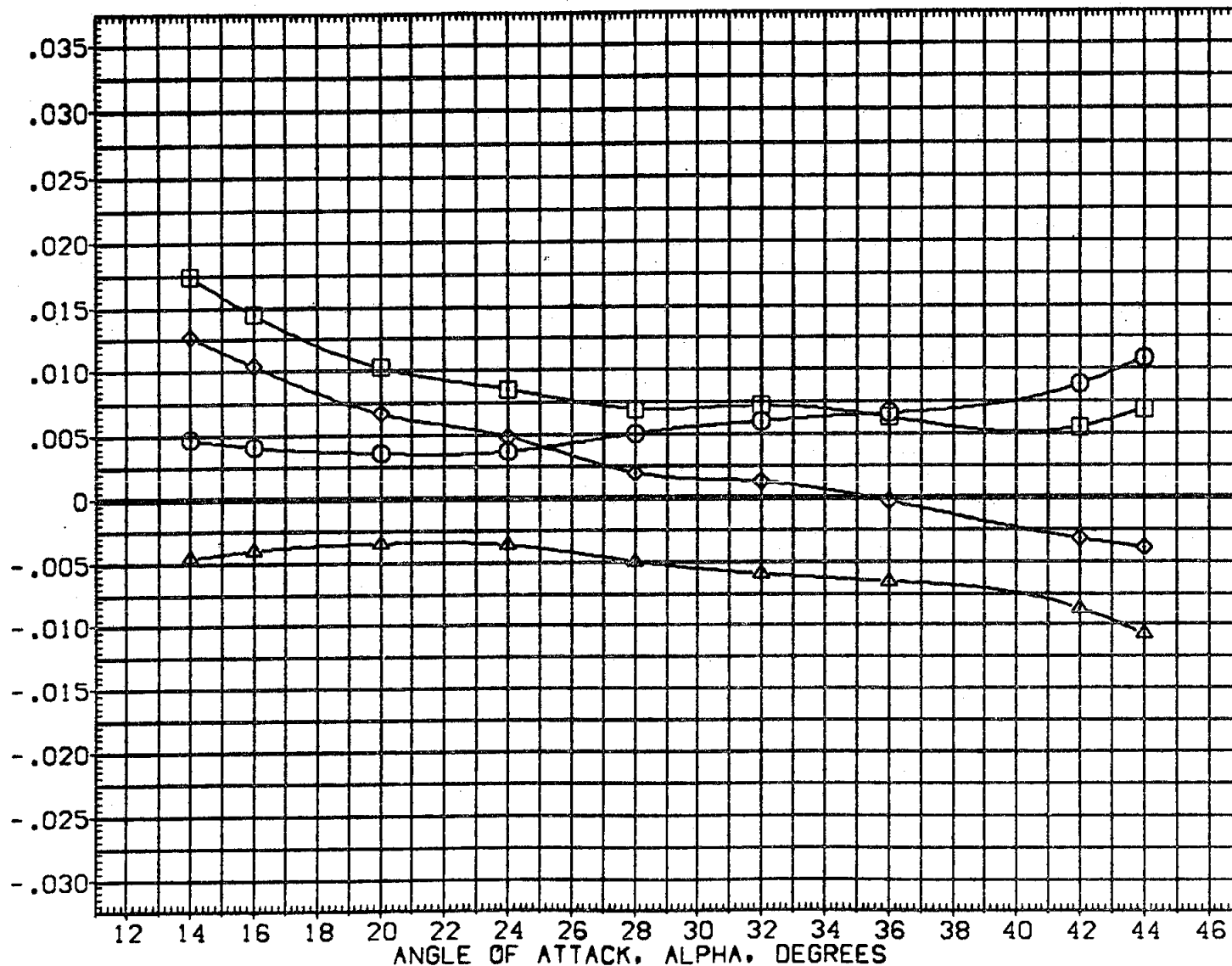


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSPDBK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
(GEP112)	DATA NOT AVAILABLE	55.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
(GEP111)	DATA NOT AVAILABLE	65.000	-11.700	.000	.000	LREF	474.8000 IN.
(GEP211)	B26 C9 M7 F7 V116 V8 E37 R5. BASELINE SPOBRK=55	65.000	-11.700	.000	.000	BREF	936.7000 IN.
(GEP218)	DATA NOT AVAILABLE	25.000	-11.700	.000	.000	XMRP	1076.7000 IN.
						YMRP	.0000 IN.
						ZMRP	375.0000 IN.
						SCALE	.0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT FWD CG . DCMFWD

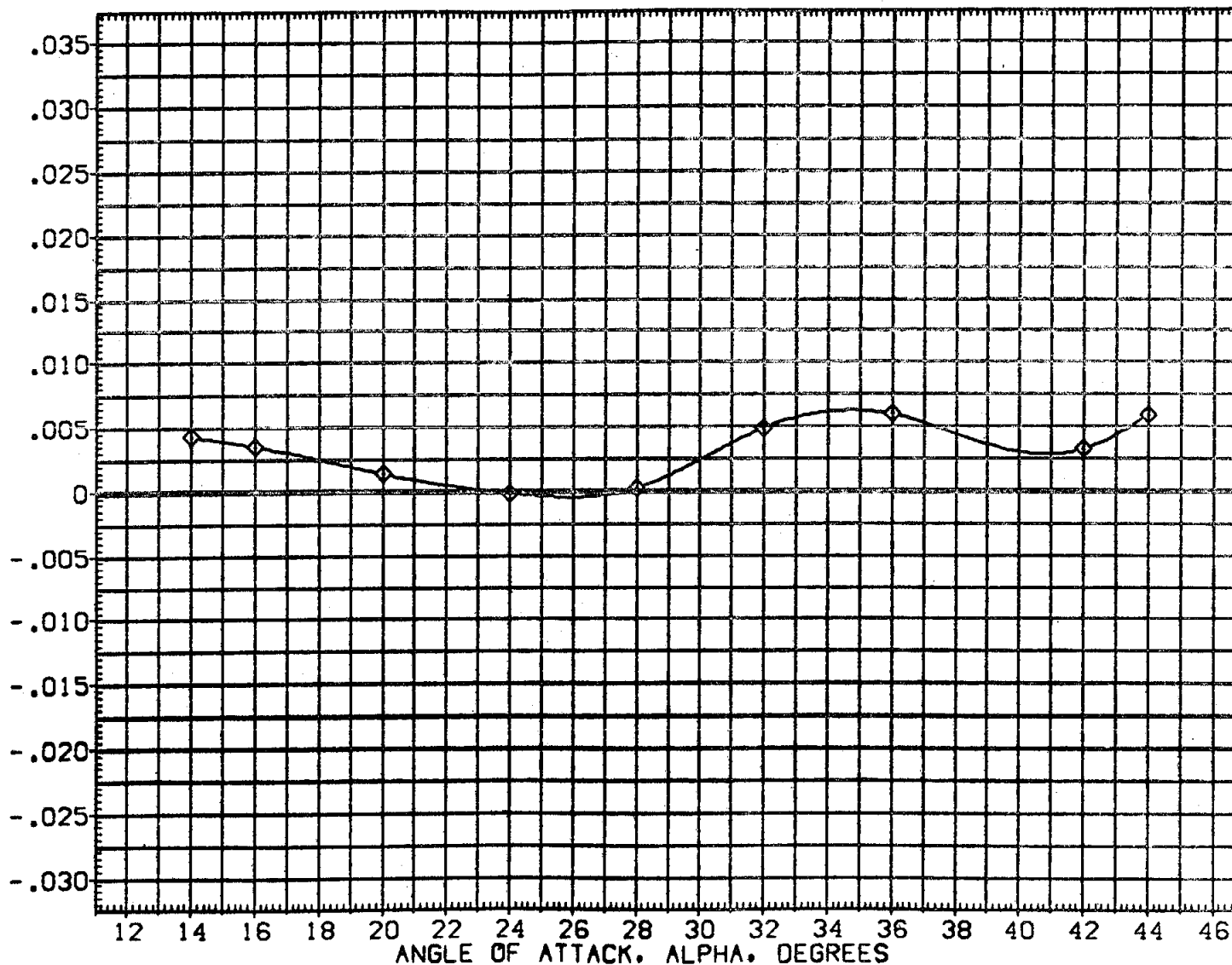


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DSPDRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION	
(GEP112)	826 C9 M7 F7 V116 V8 E37 R5, BASELINE SPDRK=25	55.000	-11.700	.000	.000	SREF	2690.0000 SQ.FT.
(GEP111)	826 C9 M7 F7 V116 V8 E37 R5, BASELINE SPDRK=25	85.000	-11.700	.000	.000	LREF	474.8000 IN.
(GEP211)	826 C9 M7 F7 V116 V8 E37 R5, BASELINE SPDRK=55	85.000	-11.700	.000	.000	BREF	936.7000 IN.
(GEP218)	826 C9 M7 F7 V116 V8 E37 R5, BASELINE SPDRK=55	25.000	-11.700	.000	.000	XMRP	1076.7000 IN.
						YMRP	.0000 IN.
						ZMRP	375.0000 IN.
						SCALE	.0150

INCREMENTAL PITCHING MOMENT COEF. ABOUT AFT CG - DCMAFT

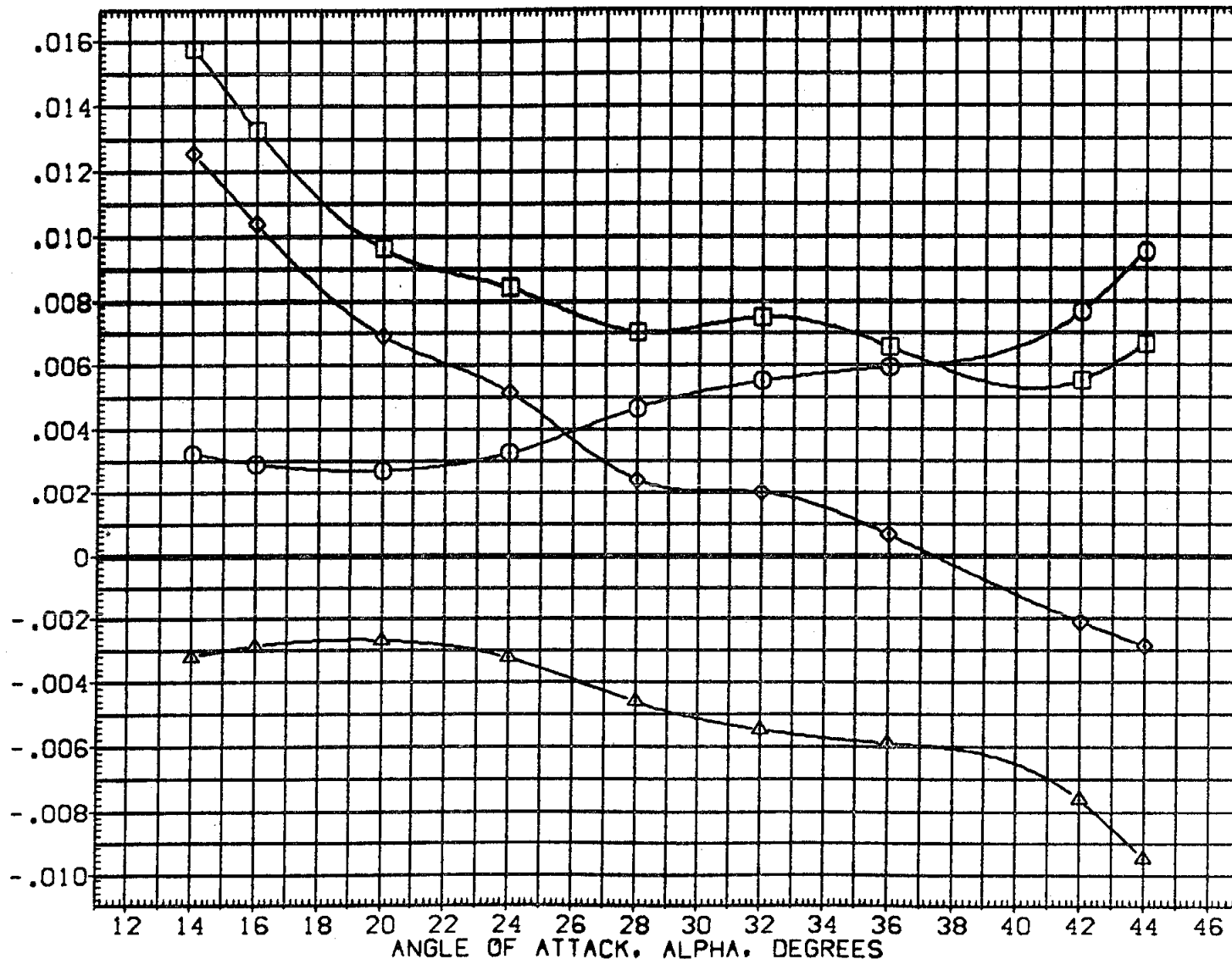


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP112)	DATA NOT AVAILABLE
(DEP111)	DATA NOT AVAILABLE
(DEP211)	B26 C9 M7 F7 V116 V8 E37 R5, BASELINE SPOBRK-55
(DEP218)	DATA NOT AVAILABLE

SPOBRK	BOFLAP	ELEV-L	ELEV-R	REFERENCE INFORMATION		
55.000	-11.700	.000	.000	SREF	2690.0000	50.FT.
85.000	-11.700	.000	.000	LREF	474.8000	IN.
85.000	-11.700	.000	.000	BREF	936.7000	IN.
25.000	-11.700	.000	.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

INCREMENTAL PITCHING MOMENT COEF. ABOUT AFT CG, DCMAFT

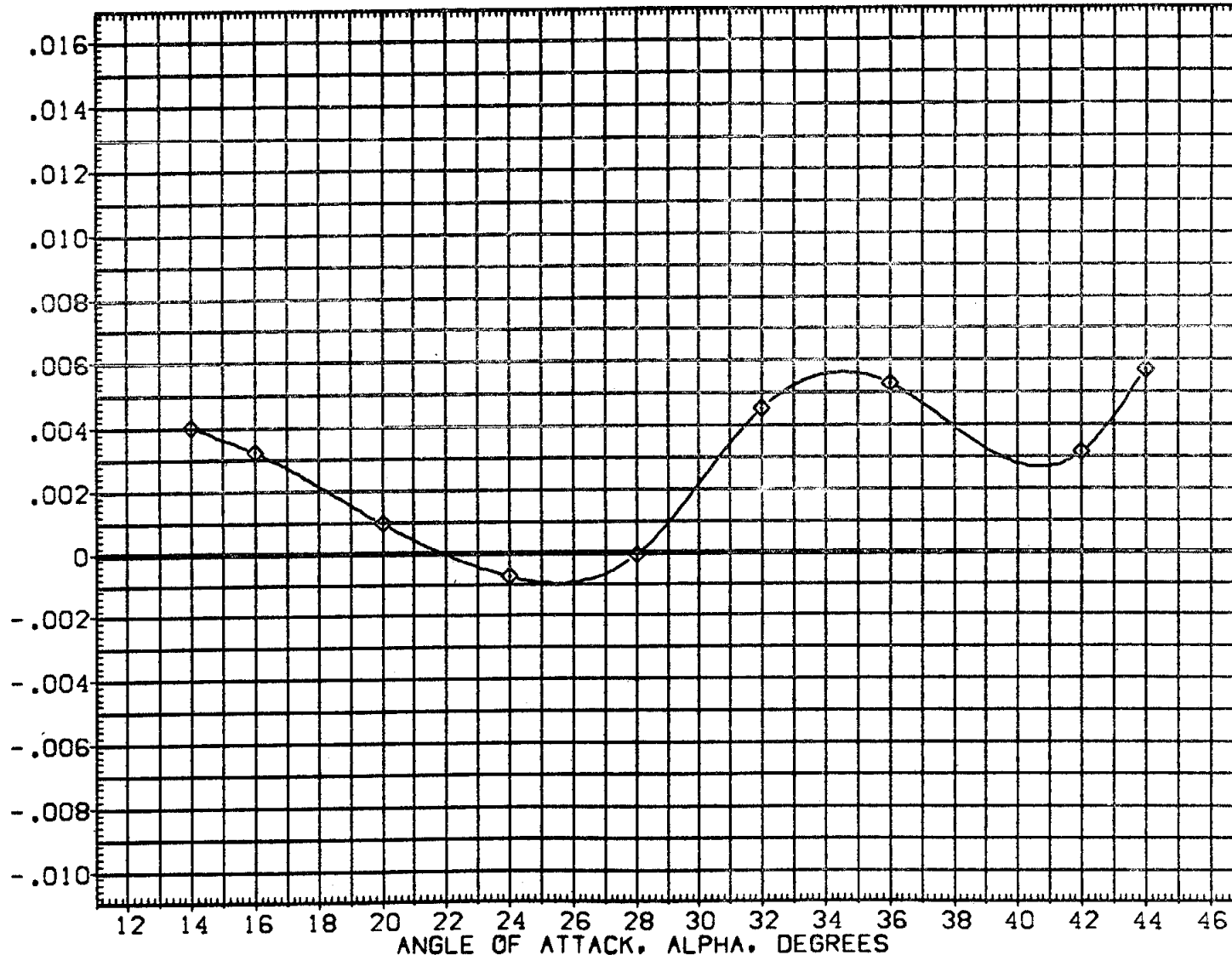


FIG. 7 SPEED BRAKE EFFECT, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP024)	○	826 C9 M7 F7 V116 V8 E26 R5
(DEP025)	□	826 C9 M14 F7 V116 V8 E26 R5
(DEP028)	◇	826 C9 M7 F7 V116 V8 E26 R5
(DEP029)	△	826 C9 M14 F7 V116 V8 E26 R5

ELEVON	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000 IN.
-40.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

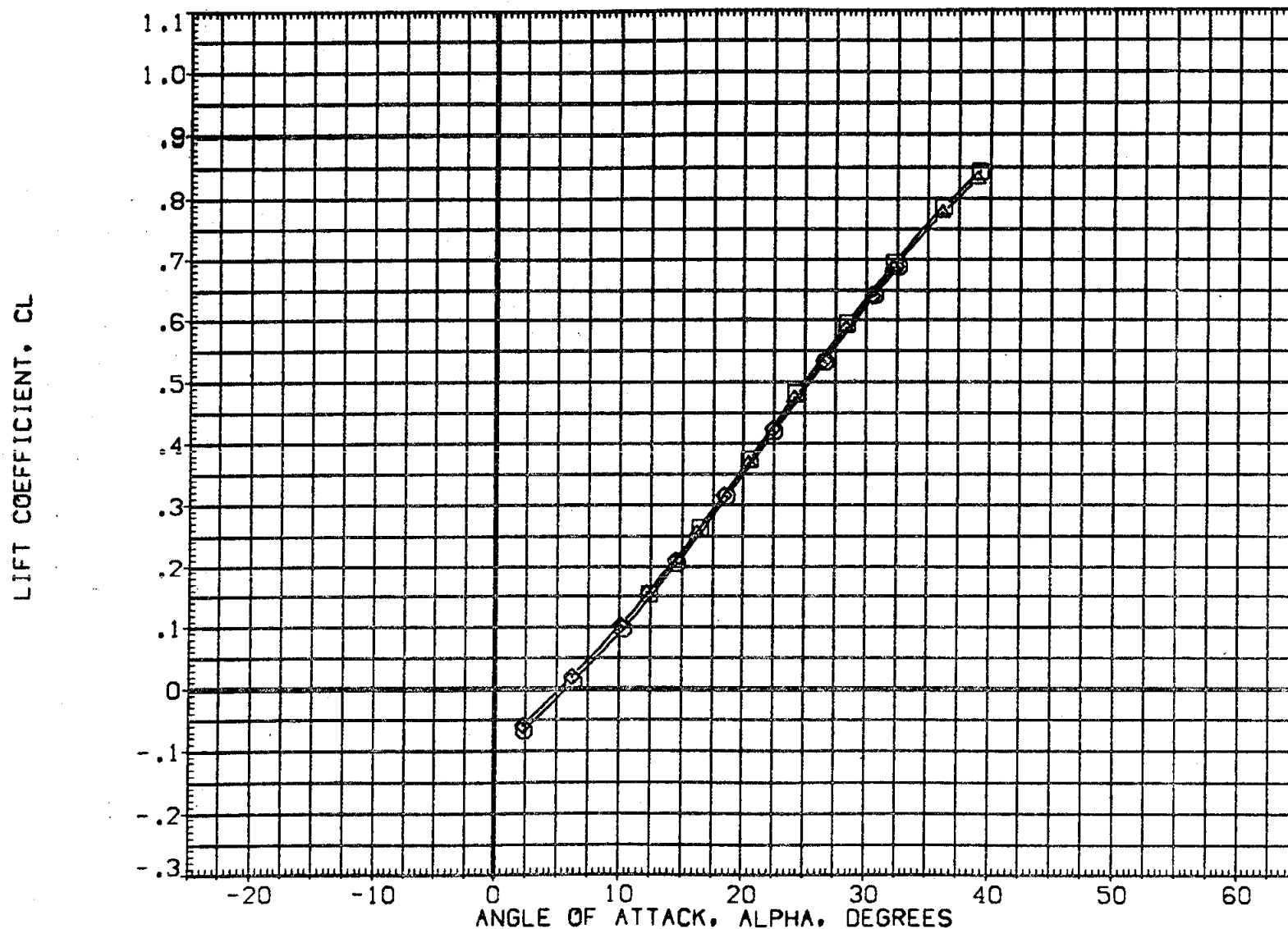


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDBRK	REFERENCE INFORMATION	
(DEP024)	□ B26 C9 M7 F7 V116 V8 E26 R5	-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
(DEP025)	□ B26 C9 M14 F7 V116 V8 E26 R5	-40.000	.000	-11.700	85.000	LREF	474.8000 IN.
(DEP028)	◇ B26 C9 M7 F7 V116 V8 E26 R5	-40.000	.000	-11.700	55.000	BREF	936.7000 IN.
(DEP029)	△ B26 C9 M14 F7 V116 V8 E26 R5	-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
						YMRP	.0000 IN.
						ZMRP	375.0000 IN.
						SCALE	.0150

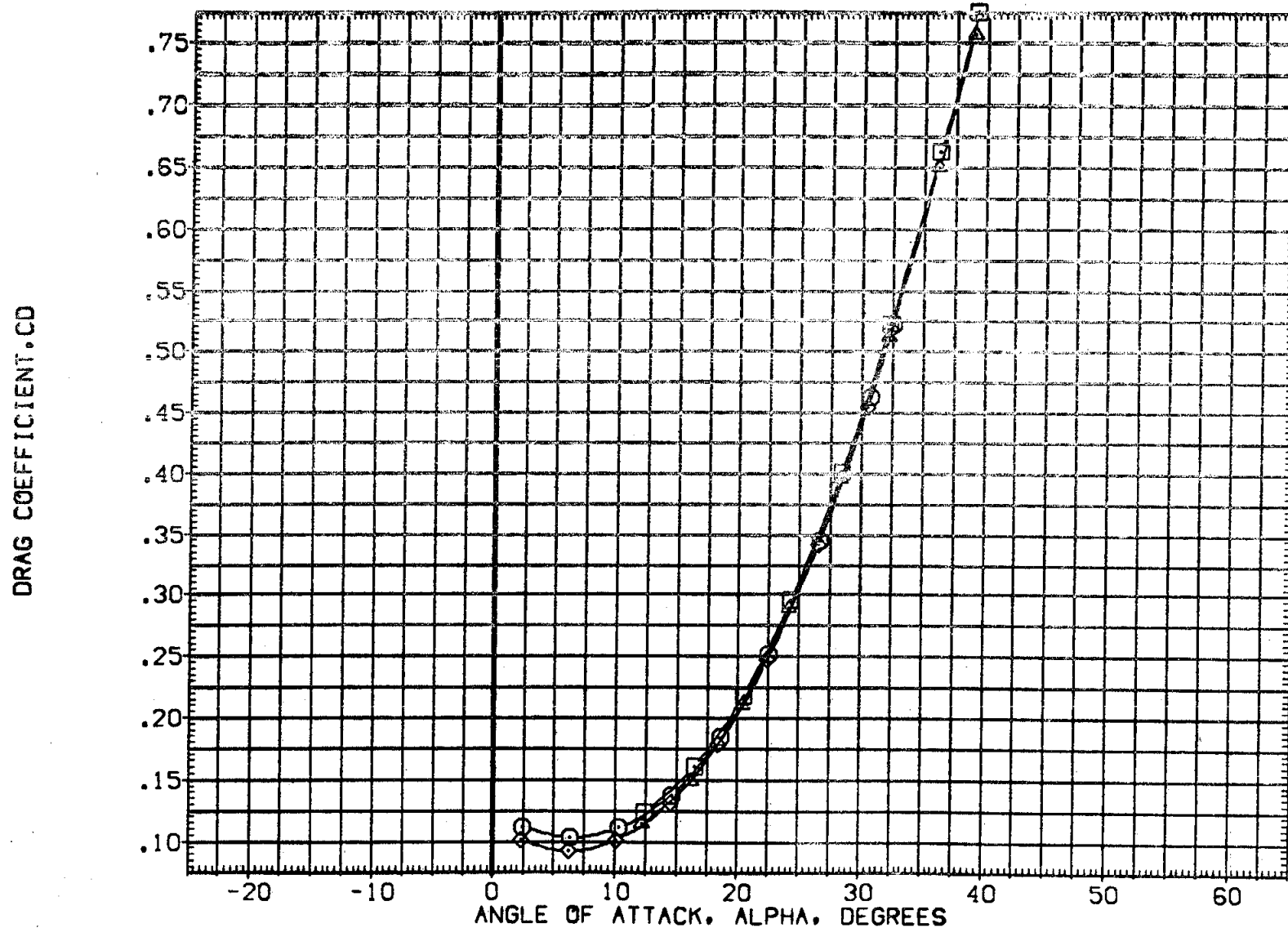


FIG. 8 MISCELLANEOUS OMS STUDY.

(A) MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP024) ○	B26 C9 M7 F7 V116 V8 E26 R5
(DEP025) □	B26 C9 M14 F7 V116 V8 E26 R5
(DEP028) ◇	B26 C9 M7 F7 V116 V8 E26 R5
(DEP029) △	B26 C9 M14 F7 V116 V8 E26 R5

ELEVON	AILRON	BDFLAP	SPDBRK	REFERENCE INFORMATION		
-40.000	.000	-11.700	85.000	SREF	2690.0000	50. FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
-40.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

FOREBODY DRAG COEFFICIENT, CDF

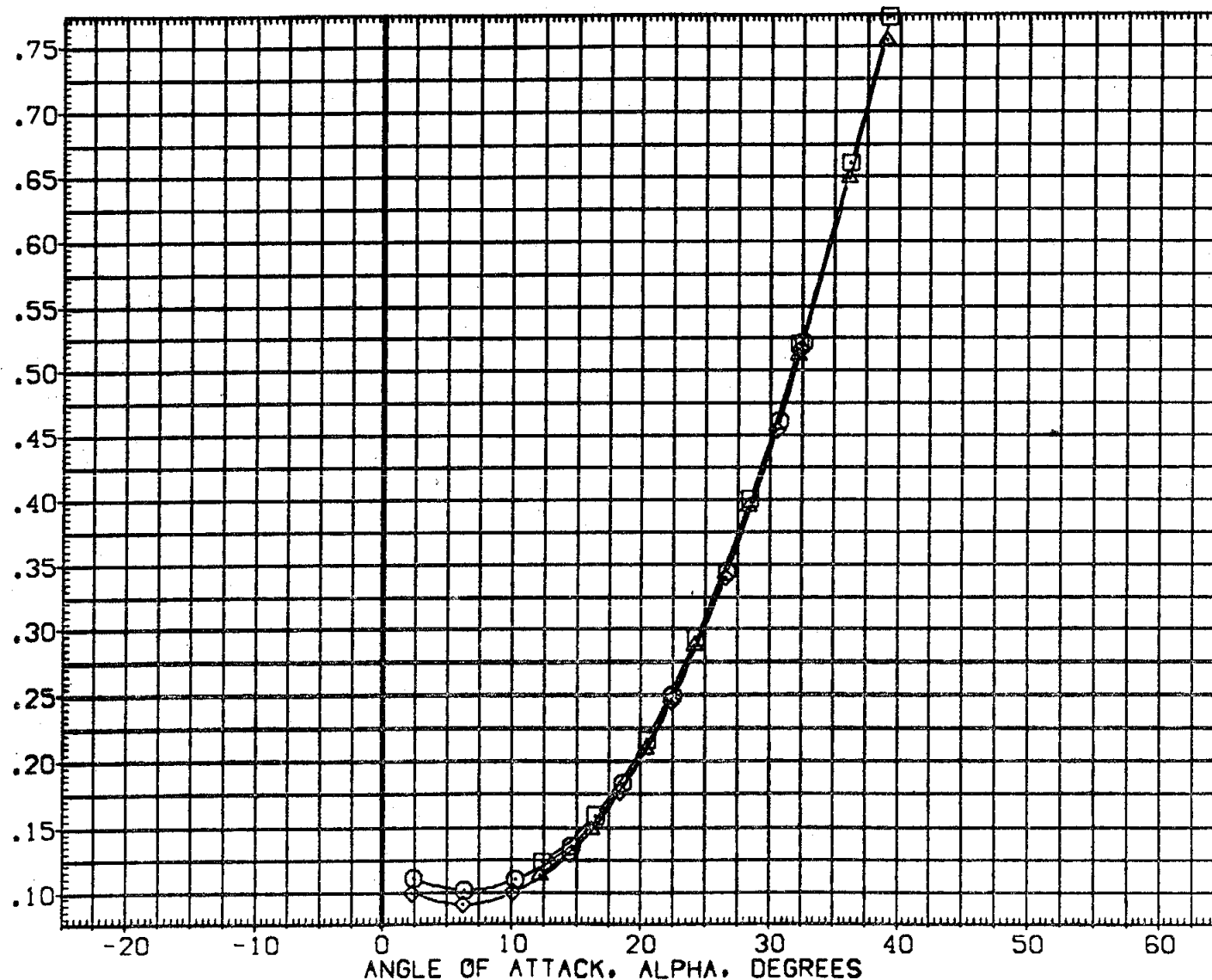


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP024) ○	B26 C9 M7 F7 V116 V8 E26 R5
(DEP025) □	B26 C9 M14 F7 V116 V8 E26 R5
(DEP028) ◇	B26 C9 M7 F7 V116 V8 E26 R5
(DEP029) △	B26 C9 M14 F7 V116 V8 E26 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION		
-40.000	.000	-11.700	85.000	SREF	2690.0000	50. FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
-40.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

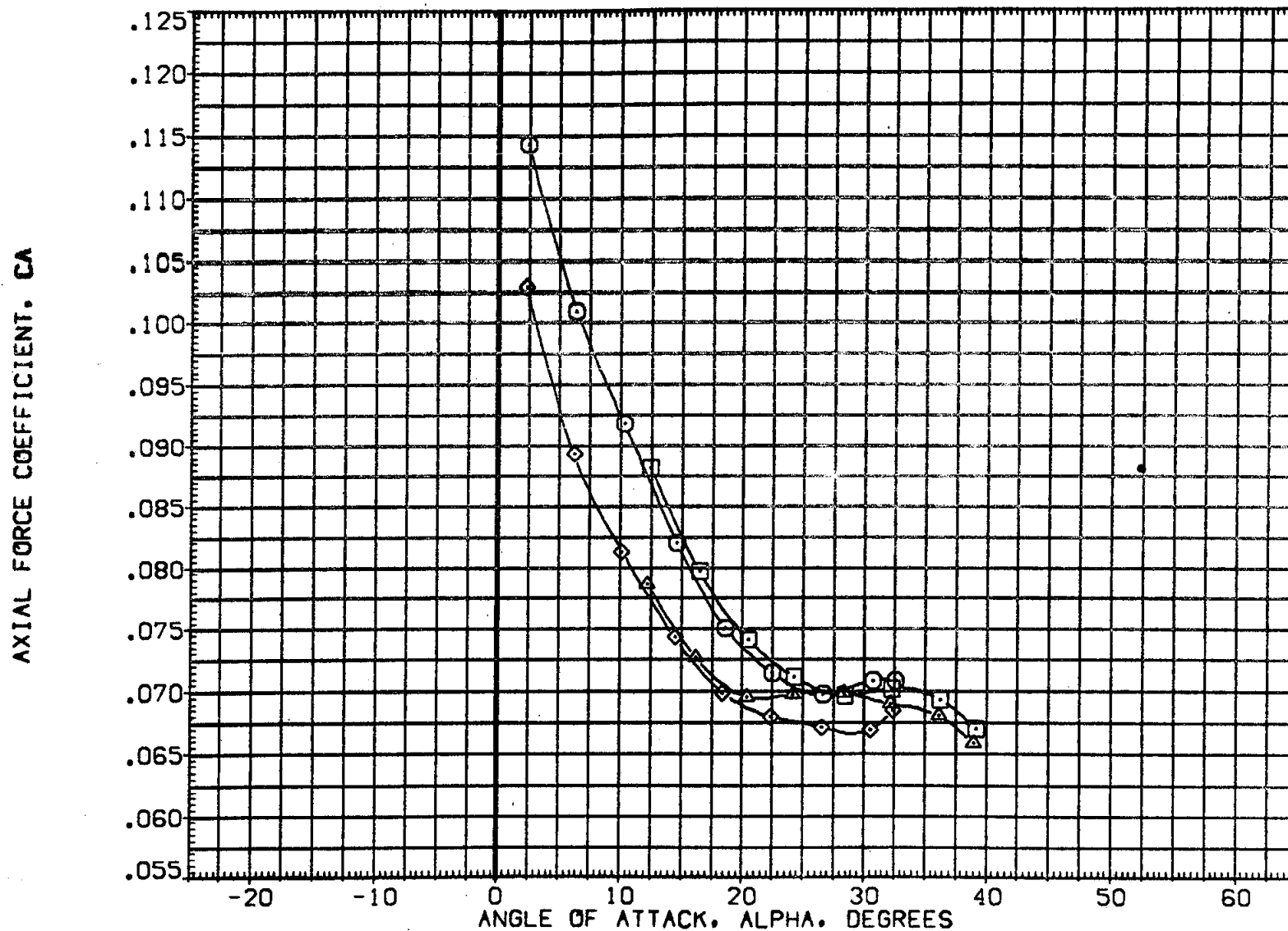


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP024)	○ B26 C9 M7 F7 V116 V8 E26 R5
(DEP025)	◇ B26 C9 M14 F7 V116 V8 E26 R5
(DEP028)	□ B26 C9 M7 F7 V116 V8 E26 R5
(DEP029)	△ B26 C9 M14 F7 V116 V8 E26 R5

ELEVON	AILRON	BDFLAP	SPOBRK
-40.000	.000	-11.700	85.000
-40.000	.000	-11.700	85.000
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

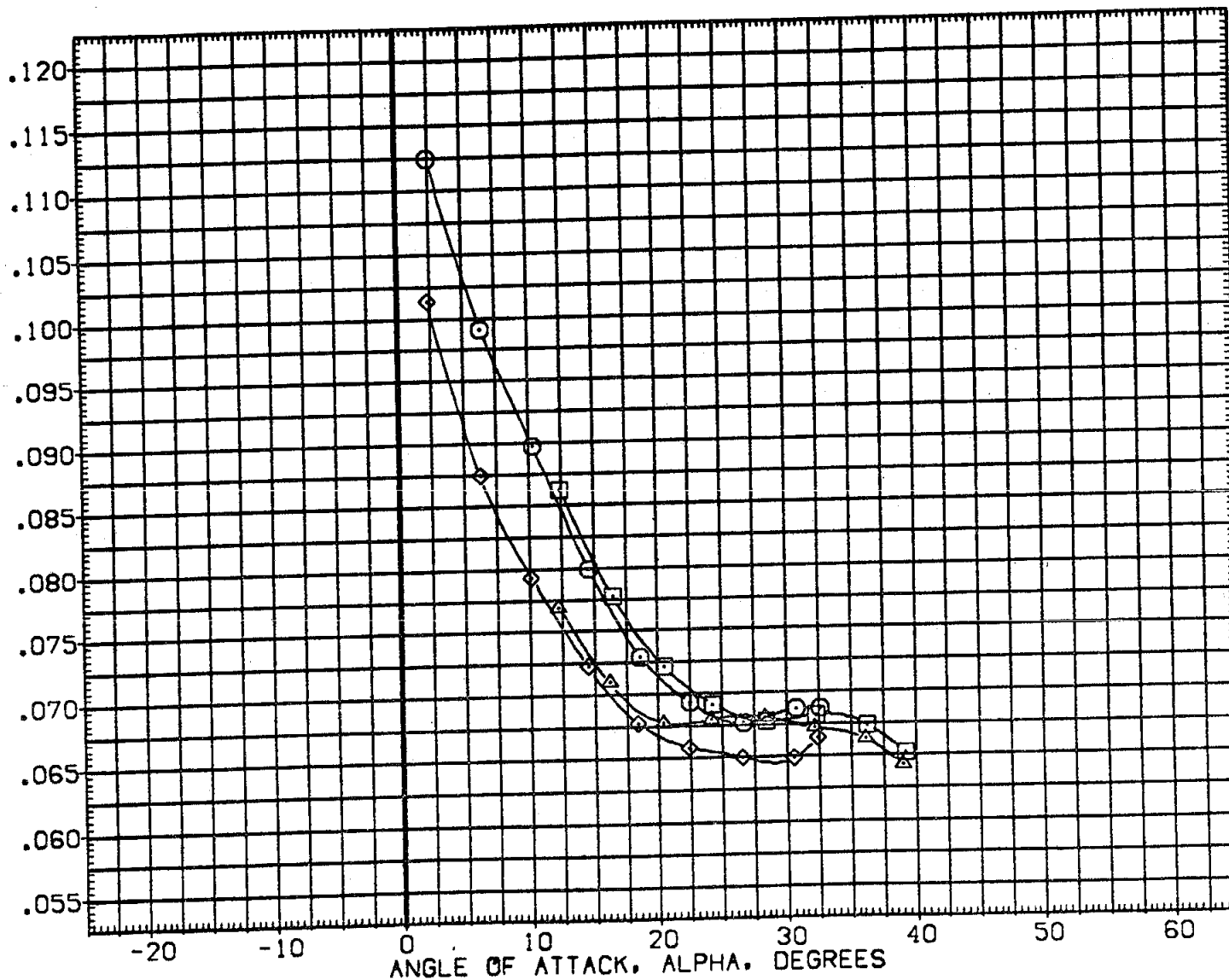


FIG. 8 MISCELLANEOUS OMS STUDY.
(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP024)	826 C9 M7 F7 V116 V8 E26 R5
(DEP025)	826 C9 M14 F7 V116 V8 E26 R5
(DEP028)	826 C9 M7 F7 V116 V8 E26 R5
(DEP029)	826 C9 M14 F7 V116 V8 E26 R5

ELEVON	AILRON	BOFLAP	SPDBRK
-40.000	.000	-11.700	85.000
-40.000	.000	-11.700	85.000
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

BASE AXIAL FORCE COEFFICIENT, CAB

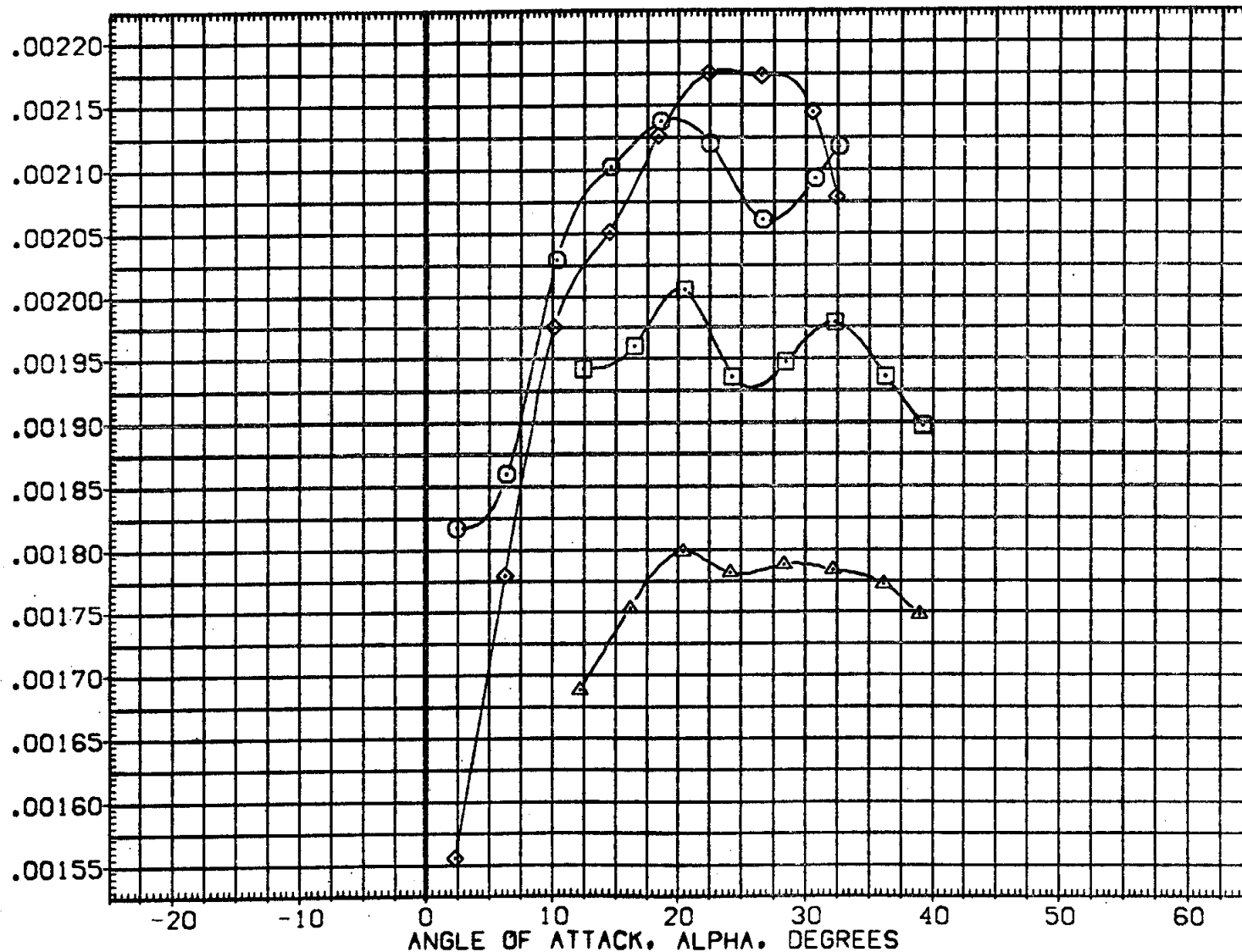


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP024)	826 C9 M7 F7 W116 V8 E26 R5
(DEP025)	826 C9 M14 F7 W116 V8 E26 R5
(DEP028)	826 C9 M7 F7 W116 V8 E26 R5
(DEP029)	826 C9 M14 F7 W116 V8 E26 R5

ELEVON	AILRON	BOFLAP	SPOBRK
-40.000	.000	-11.700	85.000
-40.000	.000	-11.700	85.000
-40.000	.000	-11.700	55.000
-40.000	.000	-11.700	55.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.7000	IN.
XMRP	1076.7000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

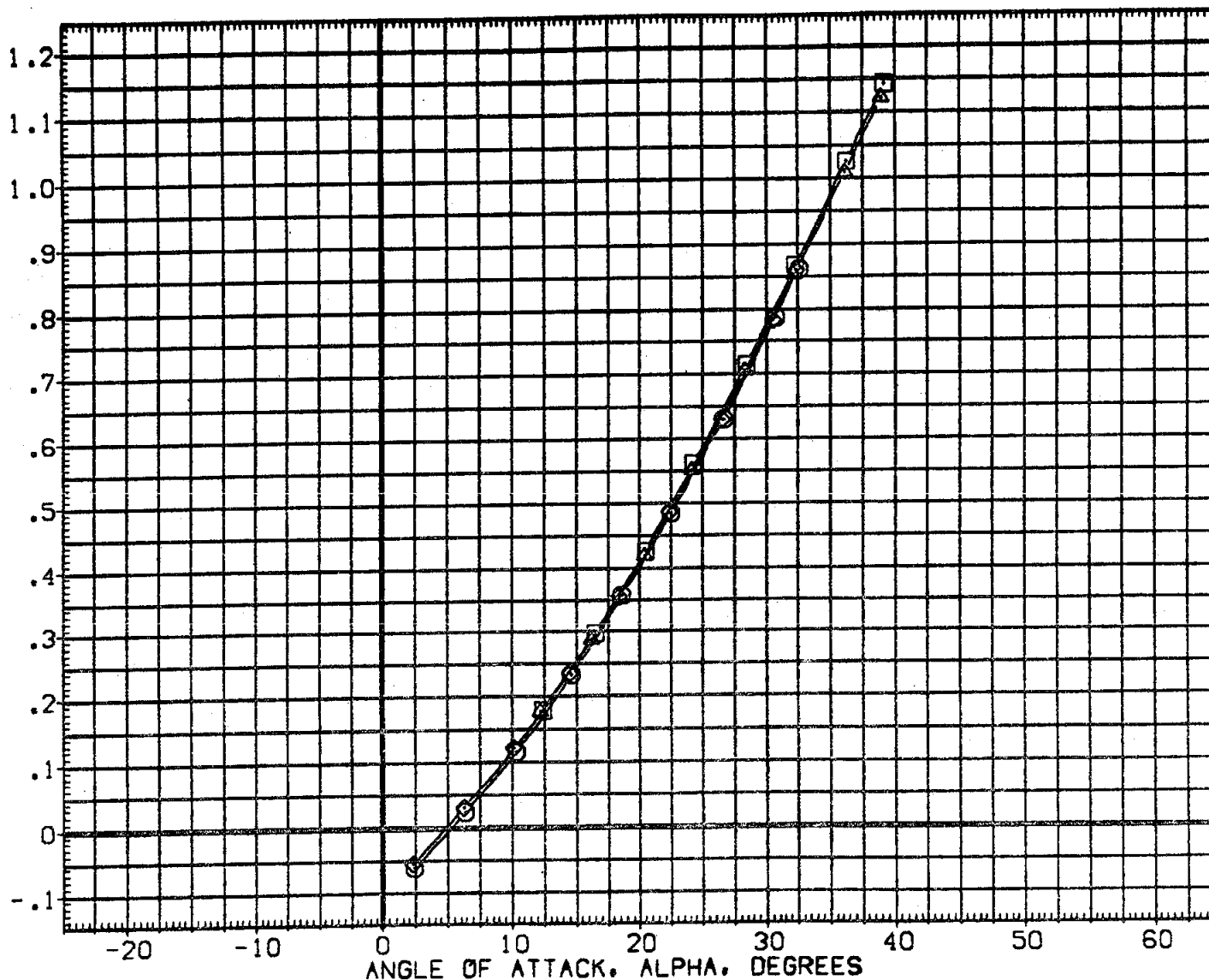


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP024) ○	B26 C9 M7 F7 W116 V8 E26 R5
(DEP025) □	B26 C9 M14 F7 W116 V8 E26 R5
(DEP028) ◇	B26 C9 M7 F7 W116 V8 E26 R5
(DEP029) △	B26 C9 M14 F7 W116 V8 E26 R5

ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000 IN.
-40.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

PITCHING MOMENT COEFFICIENT ABOUT FORWARD CG • CLMFWO

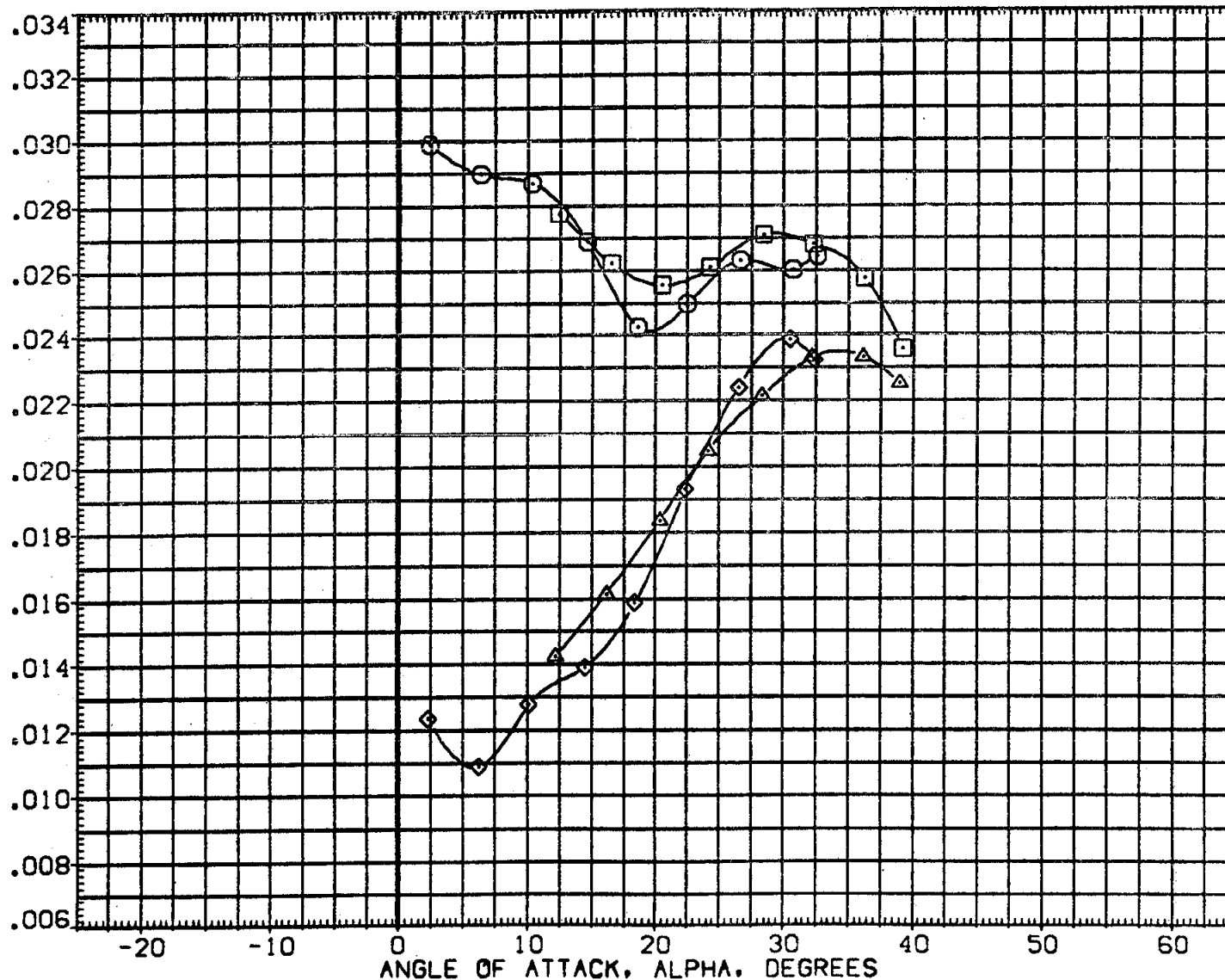


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DEP024)	○	B26 C9 M7 F7 V116 V8 E26 R5
(DEP025)	□	B26 C9 M14 F7 V116 V8 E26 R5
(DEP028)	◇	B26 C9 M7 F7 V116 V8 E26 R5
(DEP029)	△	B26 C9 M14 F7 V116 V8 E26 R5

ELEVON	AILERON	BOFLAP	SPDBRK	REFERENCE INFORMATION		
-40.000	.000	-11.700	85.000	SREF	2690.0000	50. FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
-40.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

PITCHING MOMENT COEFFICIENT ABOUT AFT CG - CLMFT

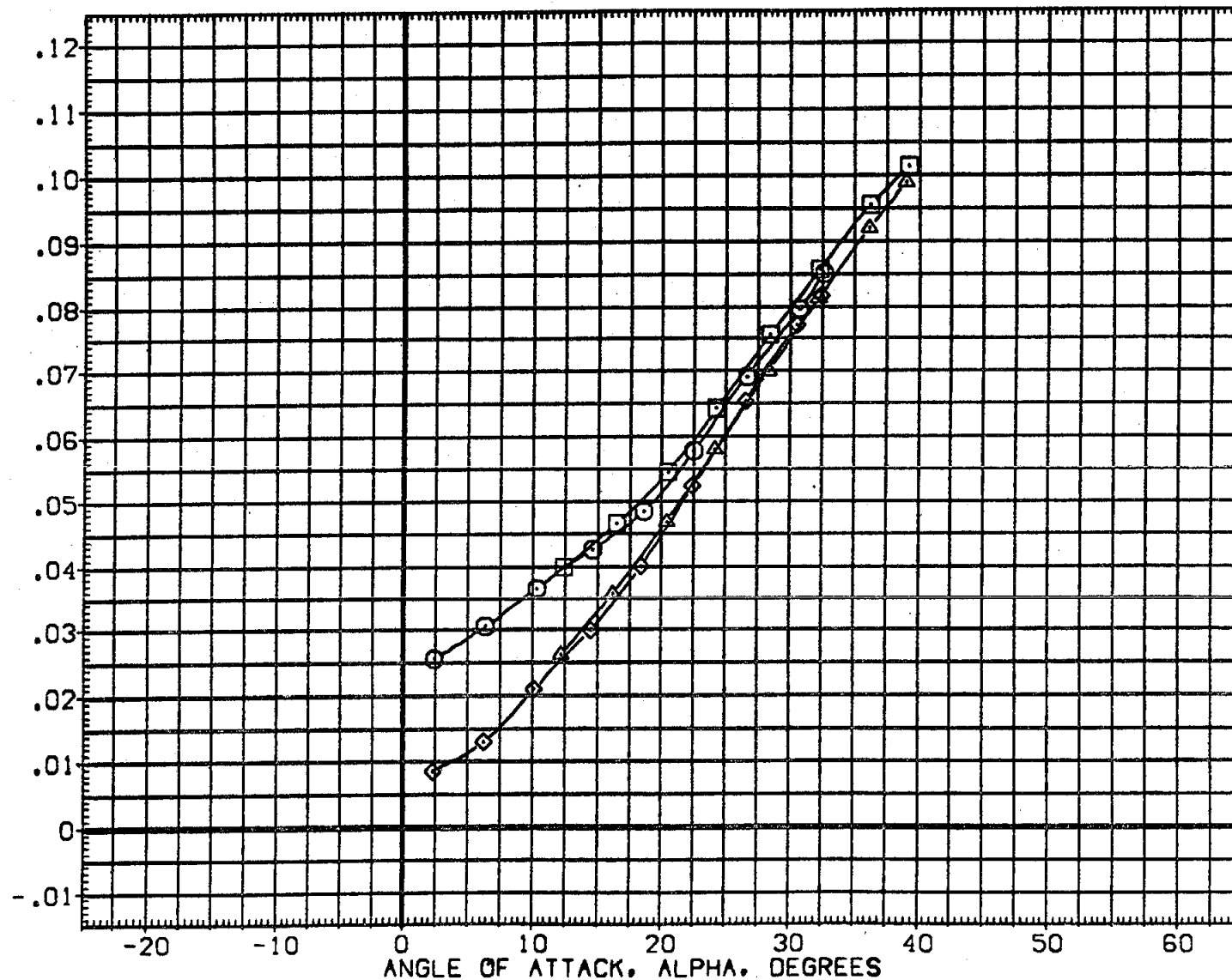


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP024) ○	B26 C9 M7 F7 V116 V8 E26 R5
(DEP025) □	B26 C9 M14 F7 V116 V8 E26 R5
(DEP028) △	B26 C9 M7 F7 V116 V8 E26 R5
(DEP029) △	B26 C9 M14 F7 V116 V8 E26 R5

ELEVON	AIRLON	BOFLAP	SPDRK	REFERENCE INFORMATION	
-40.000	.000	-11.700	85.000	SREF	2690.0000 SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000 IN.
-40.000	.000	-11.700	55.000	BREF	936.7000 IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

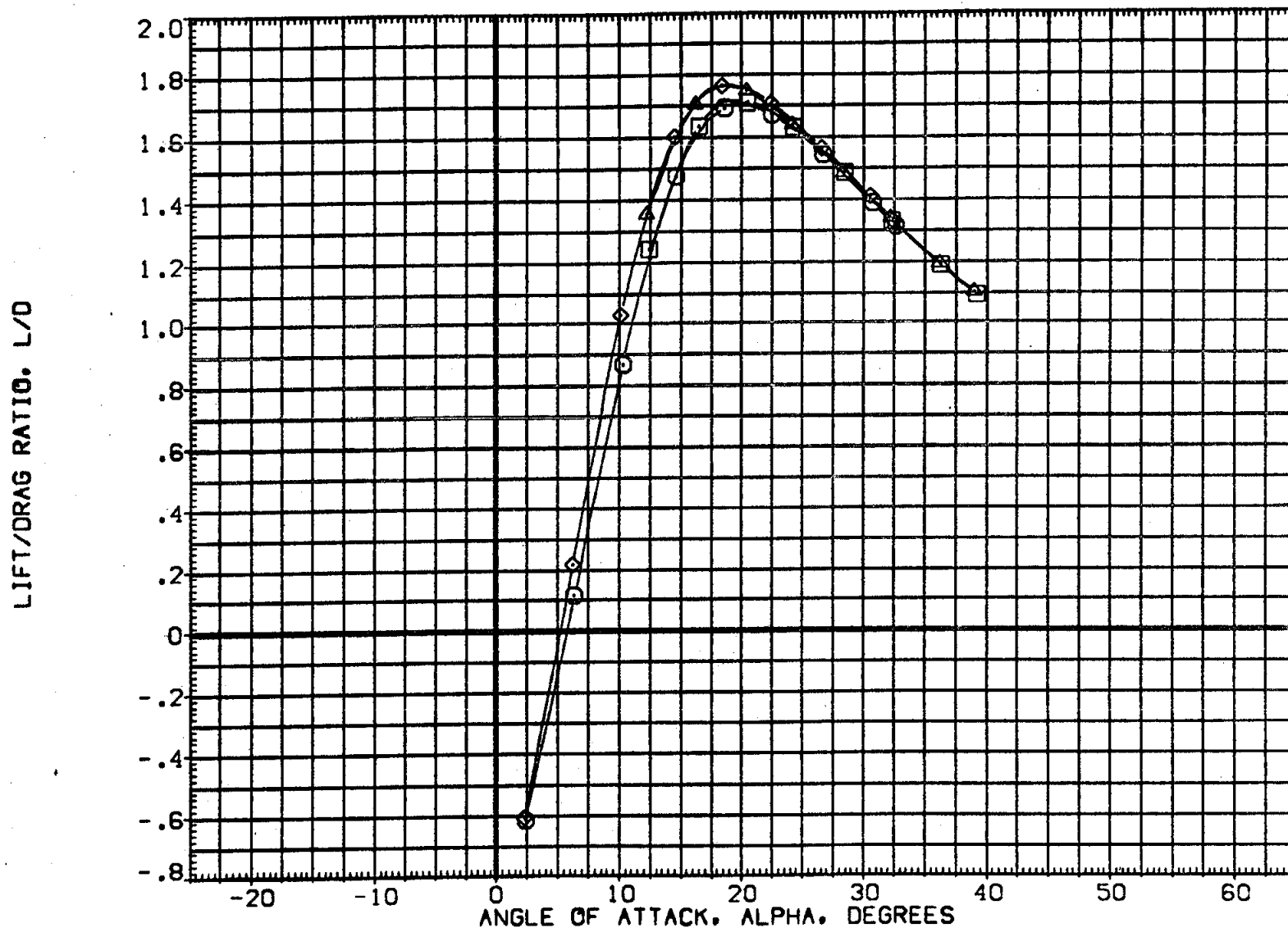


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(DEP024)	826 C9 M7 F7 V116 V8 E26 R5
(DEP025)	826 C9 M14 F7 V116 V8 E26 R5
(DEP028)	826 C9 M7 F7 V116 V8 E26 R5
(DEP029)	826 C9 M14 F7 V116 V8 E26 R5

ELEVON	AILRON	BOFLAP	SPDBRK	REFERENCE INFORMATION		
-40.000	.000	-11.700	85.000	SREF	2690.0000	50. FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
-40.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

NORMAL FORCE COEFFICIENT, CN

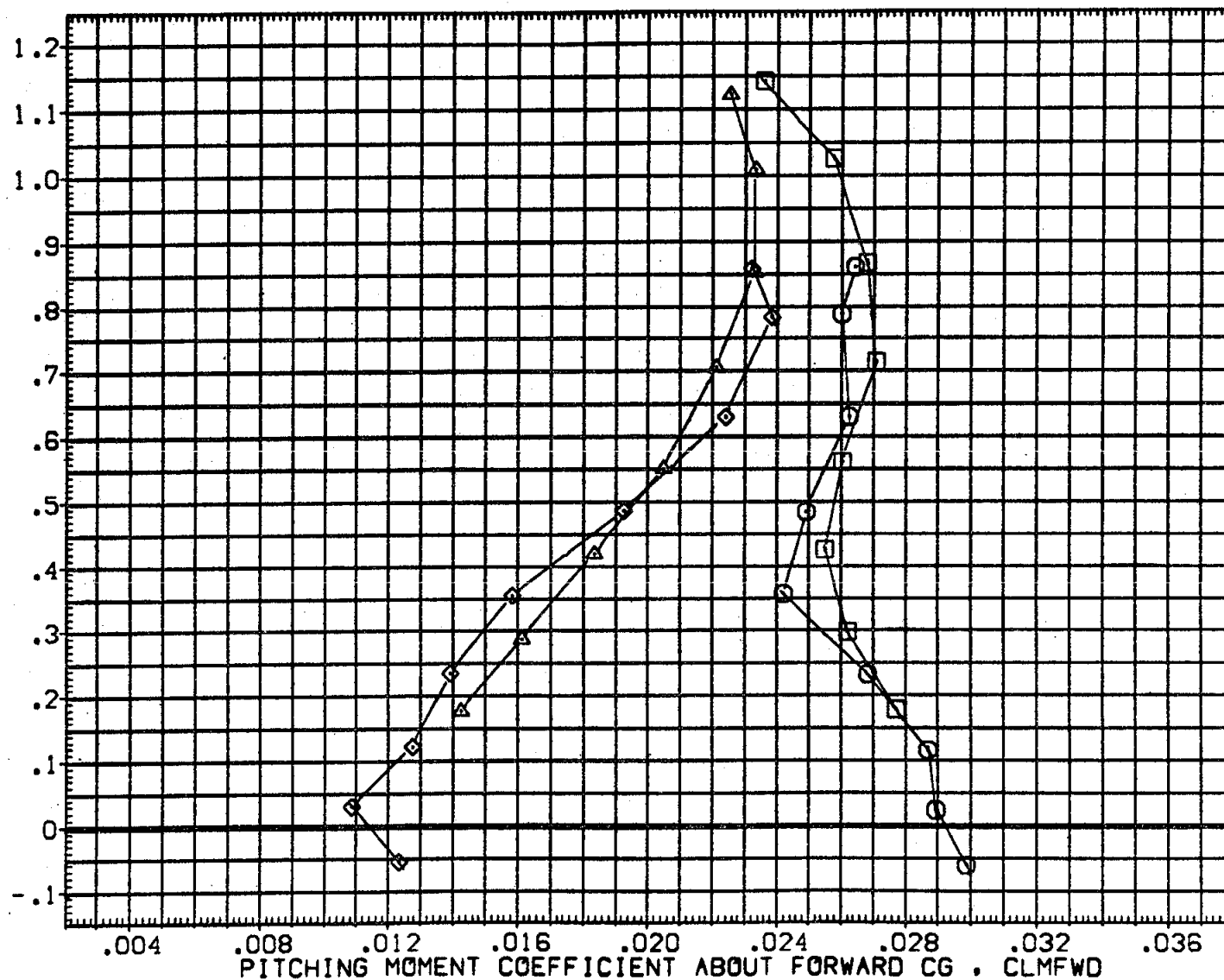


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BDFLAP	SPDBRK	REFERENCE INFORMATION		
(DEP024)	826 C9 M7 F7 V116 V8 E26 R5	-40.000	.000	-11.700	85.000	SREF	2690.0000	50. FT.
(DEP025)	826 C9 M14 F7 V116 V8 E26 R5	-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
(DEP028)	826 C9 M7 F7 V116 V8 E26 R5	-40.000	.000	-11.700	55.000	BREF	936.7000	IN.
(DEP029)	826 C9 M14 F7 V116 V8 E26 R5	-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
						YMRP	.0000	IN.
						ZMRP	.375.0000	IN.
						SCALE	.0150	

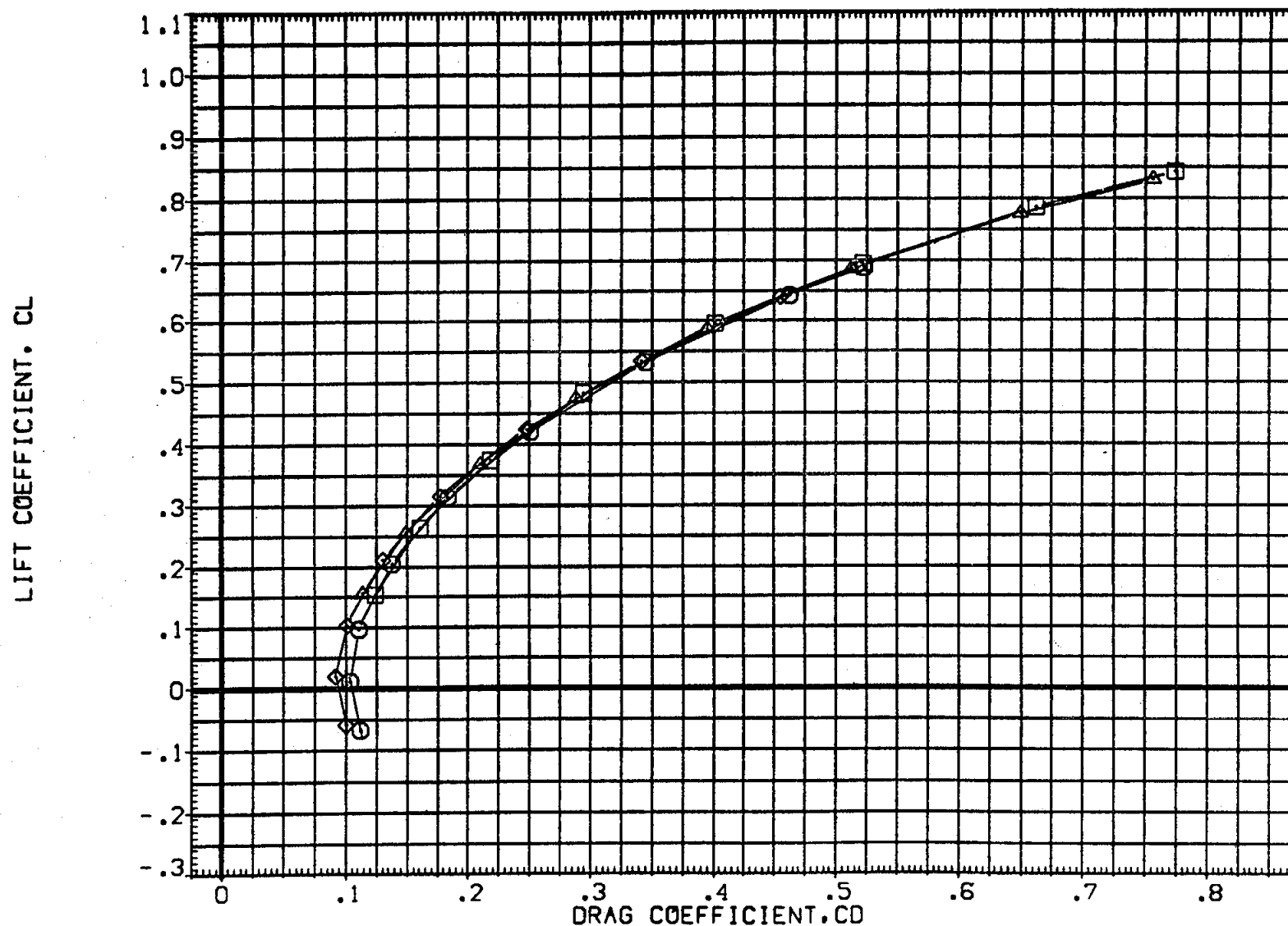


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25



LONGITUDINAL CENTER OF PRESSURE LOCATION, XCP/L(PERCENT OF BODY LENGTH)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP024) ○	B26 C9 M7 F7 V116 V8 E26 R5
(AEP025) □	B26 C9 M14 F7 V116 V8 E26 R5
(AEP028) ◇	B26 C9 M7 F7 V116 V8 E26 R5
(AEP029) △	B26 C9 M14 F7 V116 V8 E26 R5

ELEVON	AILRON	BDFLAP	SPOBRK	REFERENCE INFORMATION		
-40.000	.000	-11.700	85.000	SREF	2690.0000	SQ.FT.
-40.000	.000	-11.700	85.000	LREF	474.8000	IN.
-40.000	.000	-11.700	55.000	BREF	936.7000	IN.
-40.000	.000	-11.700	55.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

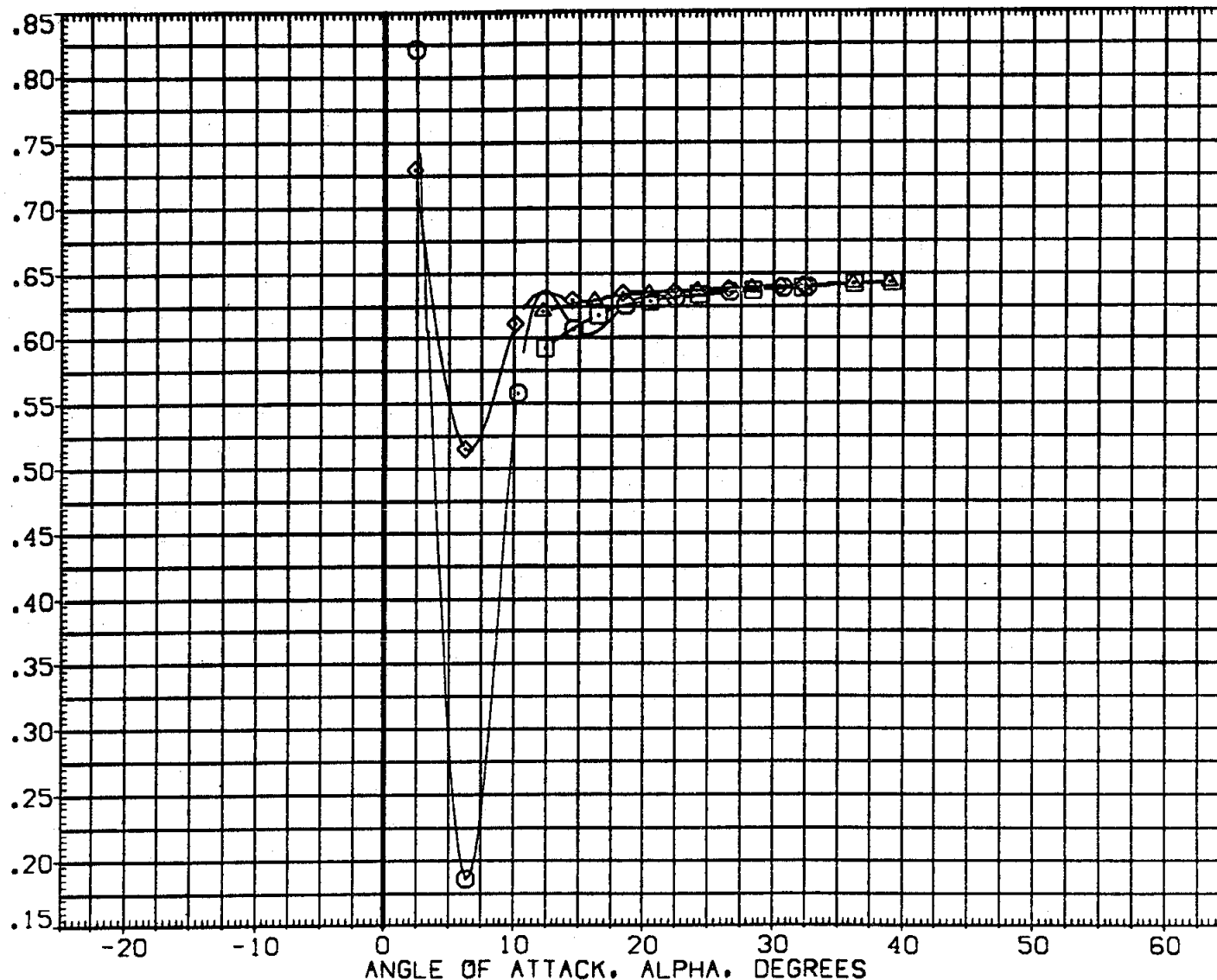


FIG. 8 MISCELLANEOUS OMS STUDY.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP012)	826 C9 M7 F7 V116 V8 E37 R5
(AEP011)	826 C9 M7 F7 V116 V8 E37 R5
(AEP005)	826 C9 M7 F7 V116 V8 E37 R5
(AEP006)	826 C9 M7 F7 V116 V8 E37 R5

BETA	BOFLAP	SPDBRK	ELEVON	REFERENCE INFORMATION
.000	-11.700	55.000	.000	SREF 2690.0000 SQ.FT.
.000	-11.700	85.000	.000	LREF 474.8000 IN.
5.000	-11.700	55.000	.000	BREF 936.7000 IN.
5.000	-11.700	85.000	.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

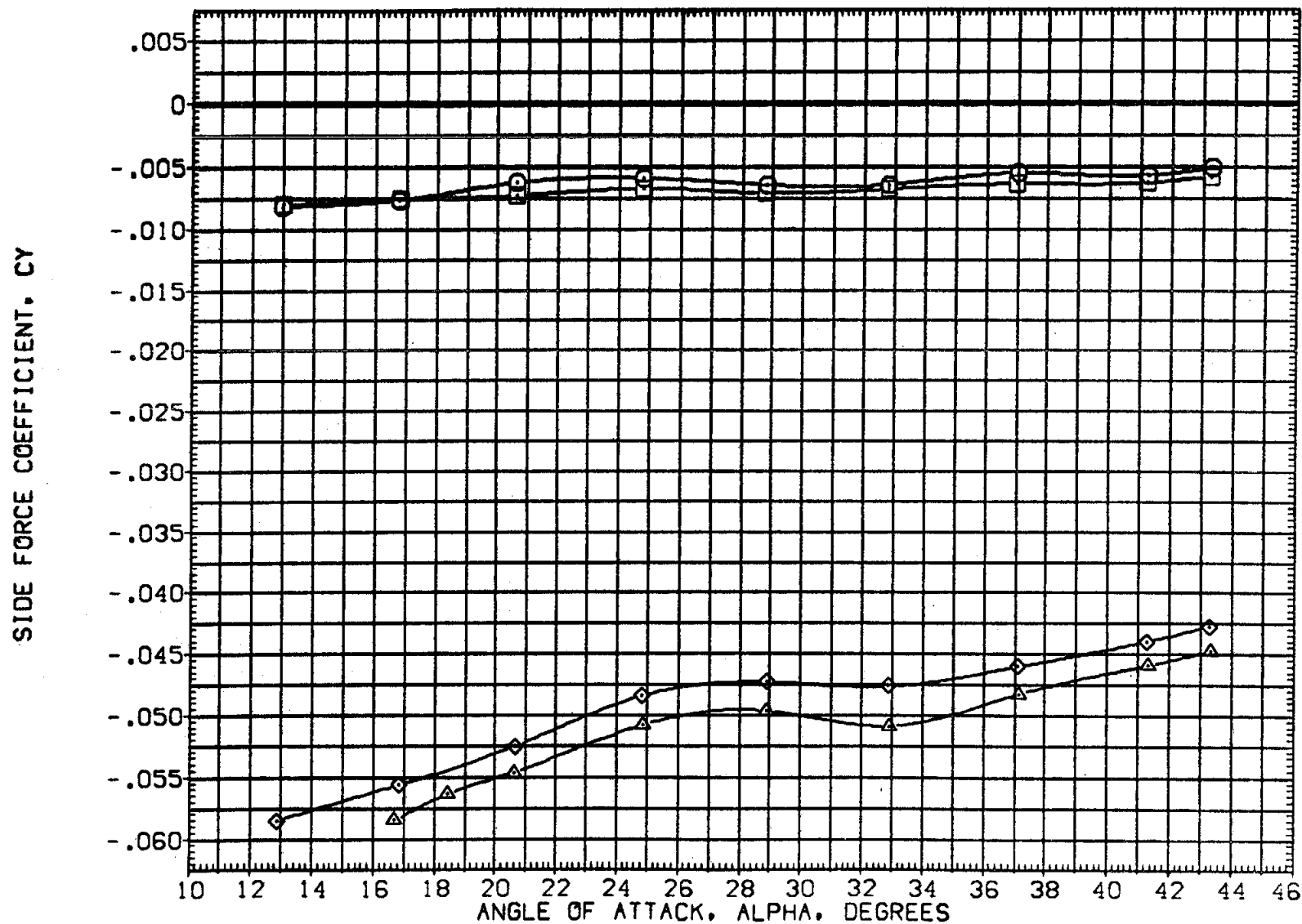


FIG. 9 TOTAL VEHICLE YAW-PITCH, AILRON AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP012)	826 C9 M7 F7 V116 V8 E37 RS
(AEP011)	826 C9 M7 F7 V116 V8 E37 RS
(AEP005)	826 C9 M7 F7 V116 V8 E37 RS
(AEP006)	DATA NOT AVAILABLE

BETA	BOFLAP	SPDRBK	ELEVON	REFERENCE INFORMATION
.000	-11.700	55.000	.000	SREF 2690.0000 SQ.FT.
.000	-11.700	85.000	.000	LREF 474.8000 IN.
5.000	-11.700	55.000	.000	BREF 936.7000 IN.
5.000	-11.700	85.000	.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

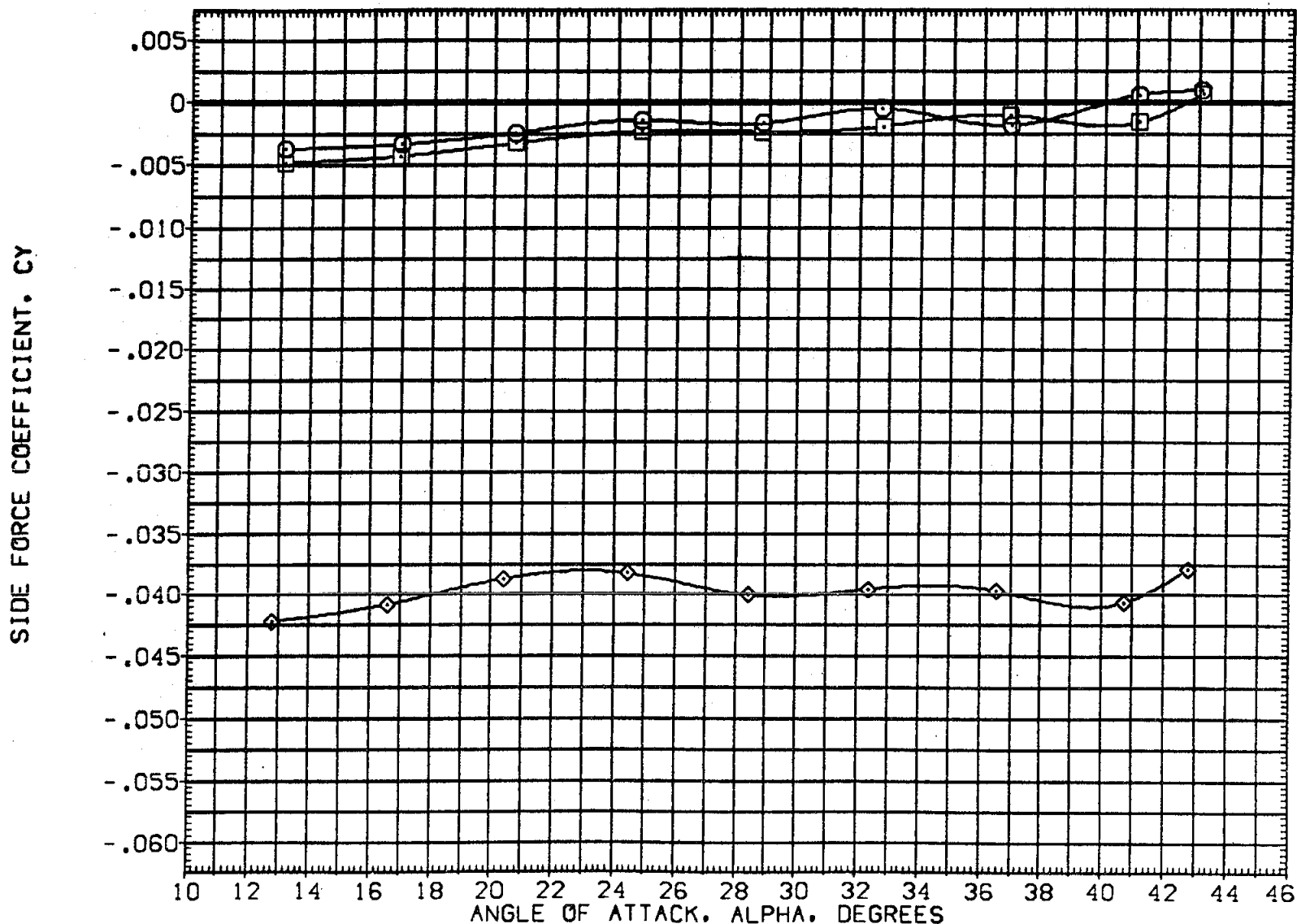


FIG. 9 TOTAL VEHICLE YAW-PITCH, AILRON AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[AEPO12]	B26 C9 M7 F7 V116 V8 E37 R5
[AEPO11]	B26 C9 M7 F7 V116 V8 E37 R5
[AEPO05]	B26 C9 M7 F7 V116 V8 E37 R5
[AEPO06]	B26 C9 M7 F7 V116 V8 E37 R5

BETA	BOFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION
.000	-11.700	55.000	.000	SREF 2690.0000 SQ.FT.
.000	-11.700	85.000	.000	LREF 474.8000 IN.
5.000	-11.700	55.000	.000	BREF 936.7000 IN.
5.000	-11.700	85.000	.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

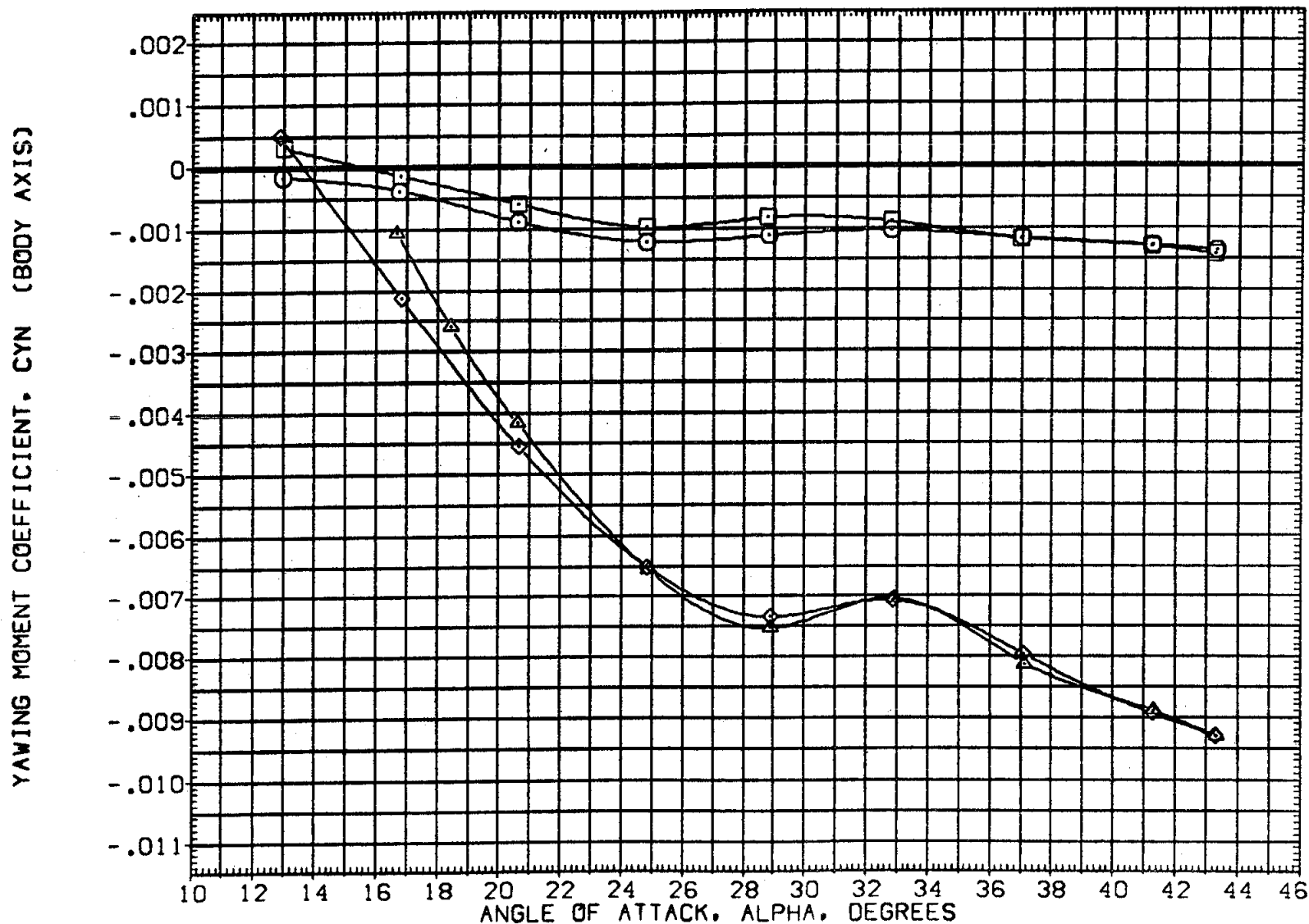


FIG. 9 TOTAL VEHICLE YAW-PITCH, AILRON AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEPO12)	826 C9 M7 F7 V116 V8 E37 R5
(AEPO11)	826 C9 M7 F7 V116 V8 E37 R5
(AEPO05)	826 C9 M7 F7 V116 V8 E37 R5
(AEPO06)	DATA NOT AVAILABLE

BETA	BOFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION
.000	-11.700	55.000	.000	SREF 2690.0000 SQ.FT.
.000	-11.700	85.000	.000	LREF 474.8000 IN.
5.000	-11.700	55.000	.000	BREF 936.7000 IN.
5.000	-11.700	85.000	.000	XMRF 1076.7000 IN.
				YMRF .0000 IN.
				ZMRF 375.0000 IN.
				SCALE .0150

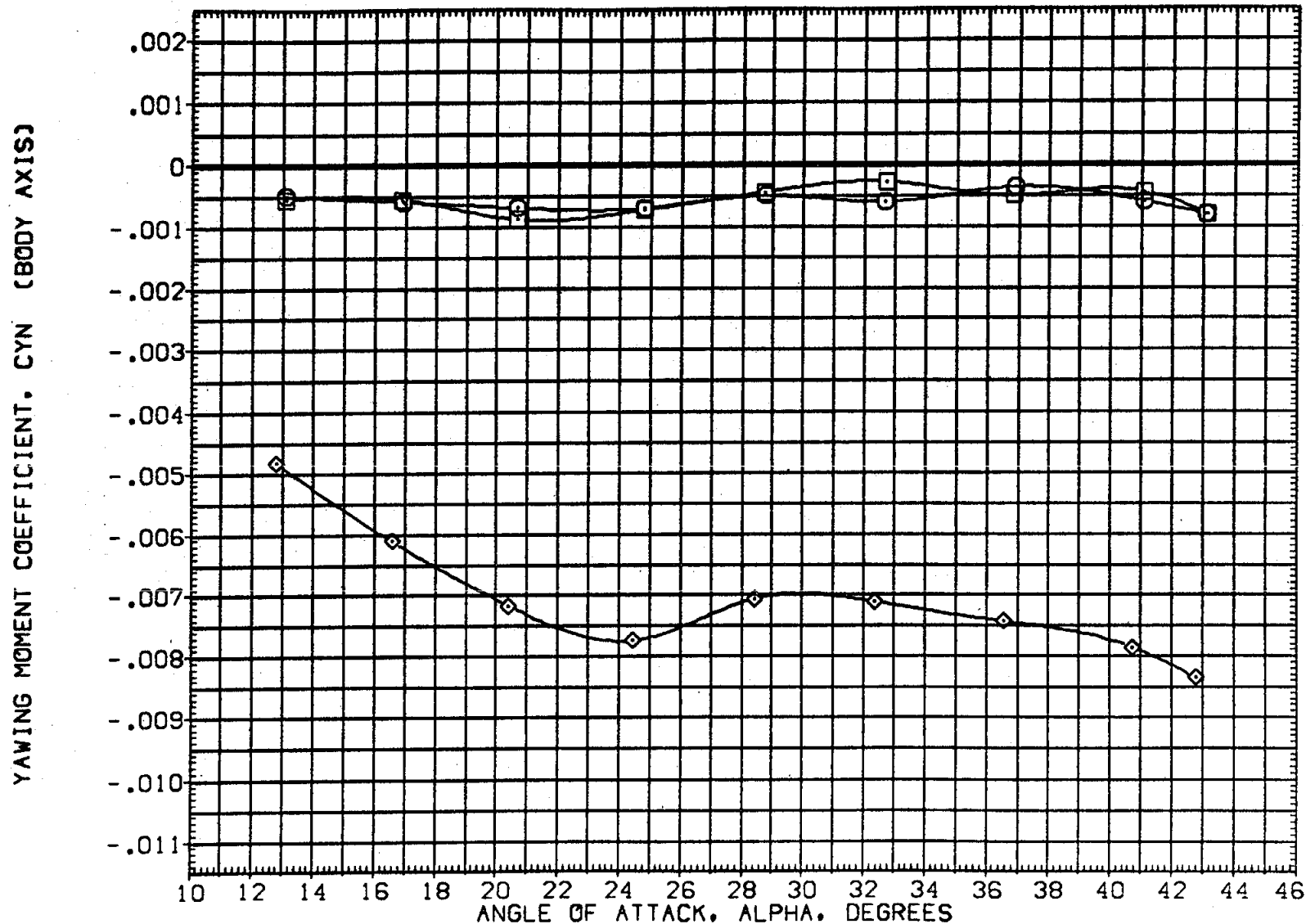


FIG. 9 TOTAL VEHICLE YAW-PITCH, AILRON AND RUDDER ARE ZERO.
(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP012) □	826 C9 M7 F7 V116 V8 E37 R5
(AEP011) □	826 C9 M7 F7 V116 V8 E37 R5
(AEP005) ◇	826 C9 M7 F7 V116 V8 E37 R5
(AEP006) △	826 C9 M7 F7 V116 V8 E37 R5

BETA	BOFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION	
.000	-11.700	55.000	.000	SREF	2690.0000 SQ.FT.
.000	-11.700	85.000	.000	LREF	474.8000 IN.
5.000	-11.700	55.000	.000	BREF	936.7000 IN.
5.000	-11.700	85.000	.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

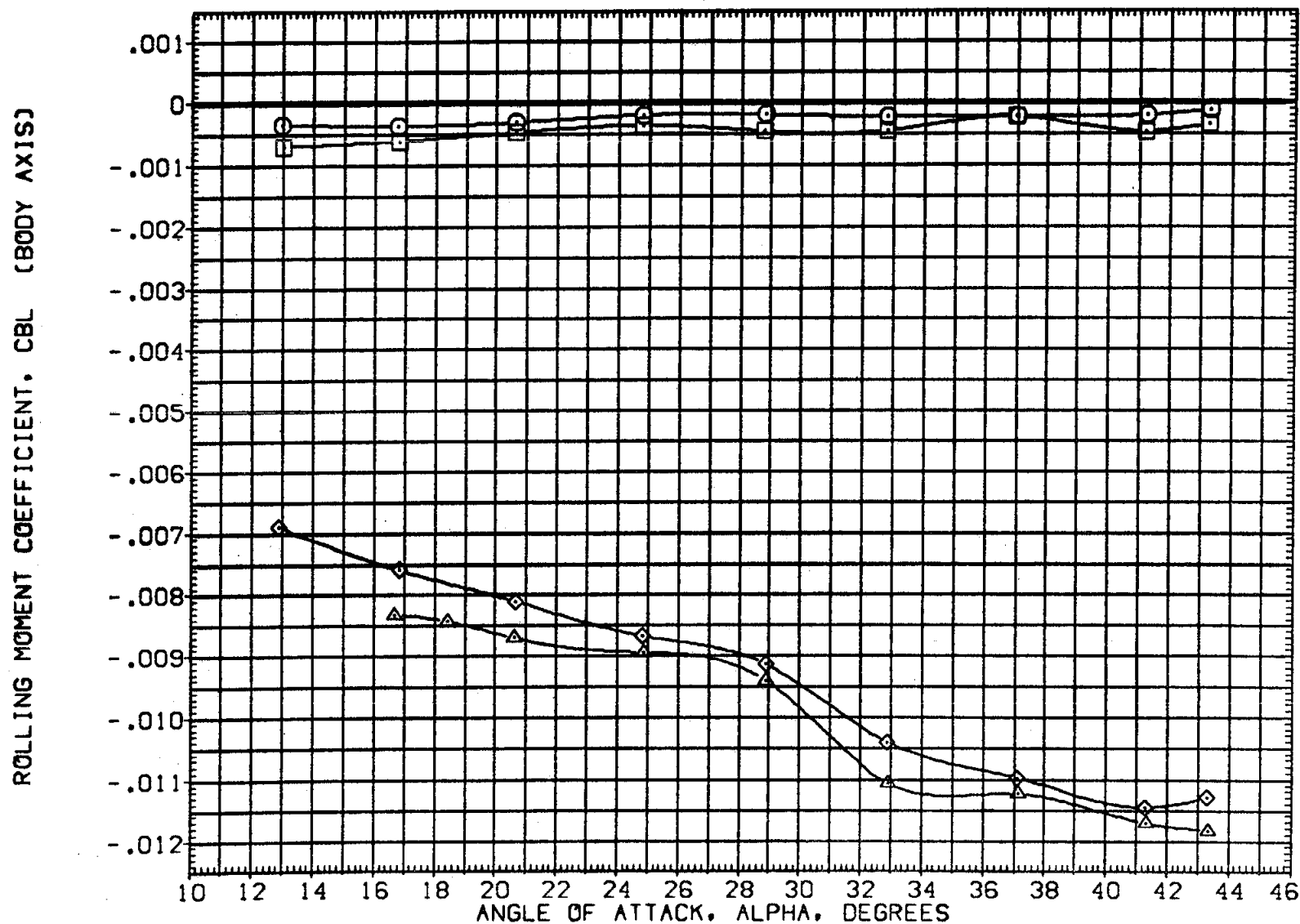


FIG. 9 TOTAL VEHICLE YAW-PITCH, AILERON AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP012)	826 C9 M7 F7 V116 V8 E37 R5
(AEP011)	826 C9 M7 F7 V116 V8 E37 R5
(AEP005)	826 C9 M7 F7 V116 V8 E37 R5
(AEP006)	DATA NOT AVAILABLE

BETA	BOFLAP	SPDRBK	ELEVON	REFERENCE INFORMATION
.000	-11.700	55.000	.000	SREF 2690.0000 SQ.FT.
.000	-11.700	85.000	.000	LREF 474.8000 IN.
5.000	-11.700	55.000	.000	BREF 936.7000 IN.
5.000	-11.700	85.000	.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

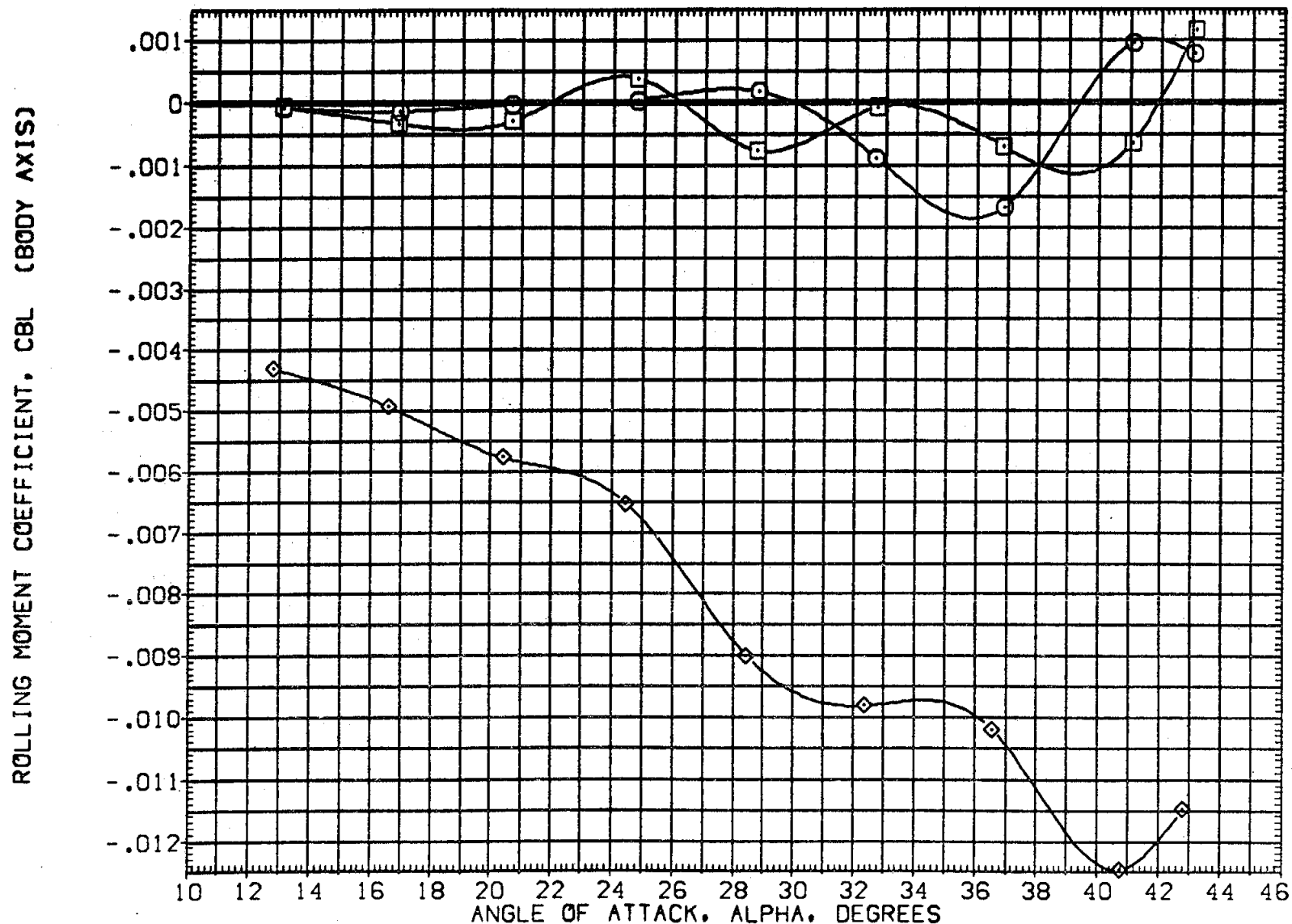


FIG. 9 TOTAL VEHICLE YAW-PITCH, AILRON AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
{AEP002}	B26 C9 M7 F7 V116 V8 E37 R5
{AEP001}	B26 C9 M7 F7 V116 V8 E37 R5
{AEP003}	B26 C9 M7 F7 V116 V8 E37 R5
{AEP004}	B26 C9 M7 F7 V116 V8 E37 R5

ALPHA	BOFLAP	SPODRK	ELEVON	REFERENCE INFORMATION
20.000	-11.700	85.000	.000	SREF 2690.0000 SQ.FT.
20.000	-11.700	55.000	.000	LREF 474.8000 IN.
30.000	-11.700	85.000	.000	BREF 936.7000 IN.
30.000	-11.700	55.000	.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

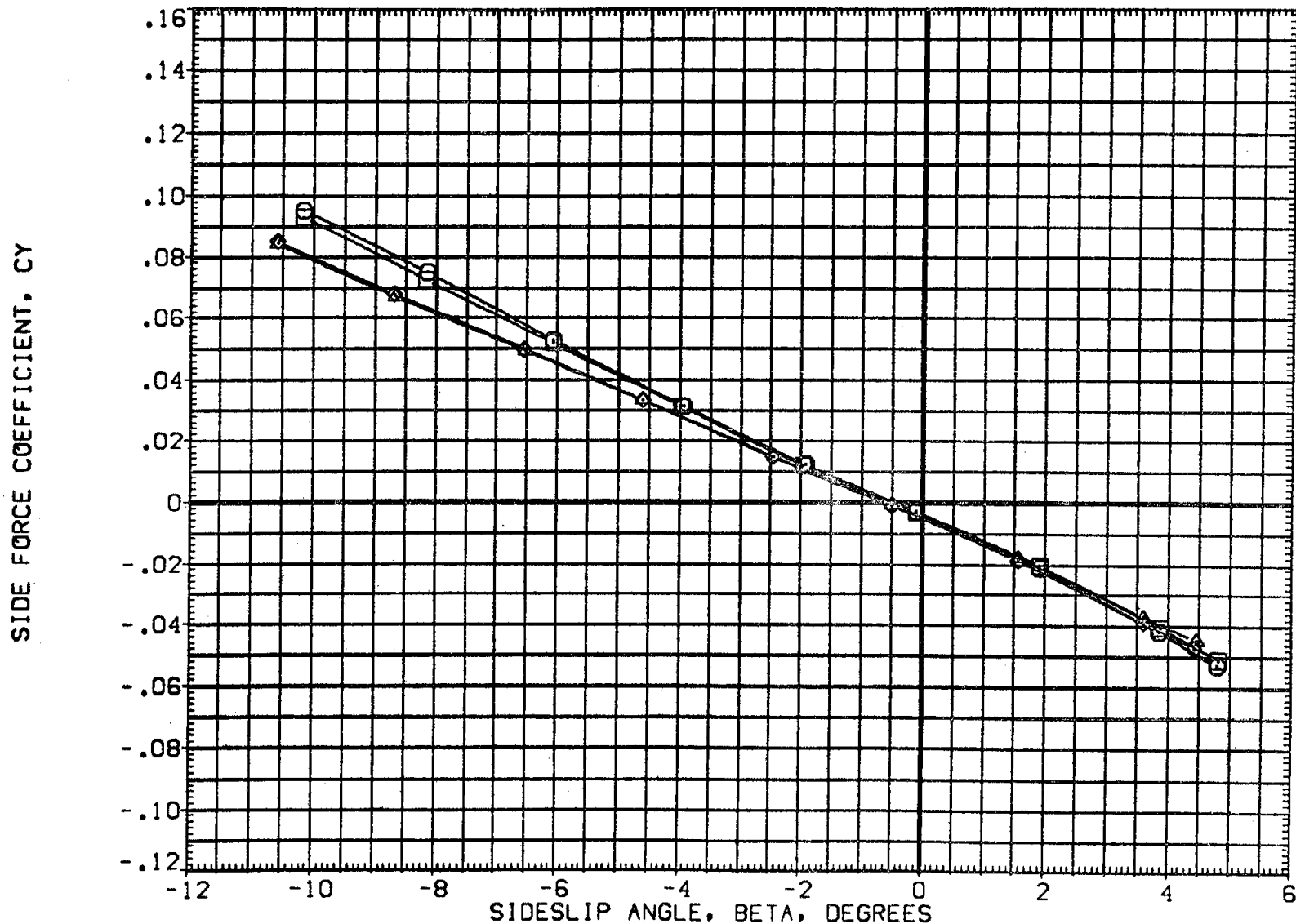


FIG. 10 TOTAL VEHICLE BETA-SWEEP, AILRON AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(AEP002)	○	B26 C9 M7 F7 V116 V8 E37 R5
(AEP001)	□	B26 C9 M7 F7 V116 V8 E37 R5
(AEP003)	◇	B26 C9 M7 F7 V116 V8 E37 R5
(AEP004)	△	B26 C9 M7 F7 V116 V8 E37 R5

ALPHA	BOFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION		
20.000	-11.700	85.000	.000	SREF	2690.0000	SQ.FT.
20.000	-11.700	55.000	.000	LREF	474.8000	IN.
30.000	-11.700	85.000	.000	BREF	936.7000	IN.
30.000	-11.700	55.000	.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

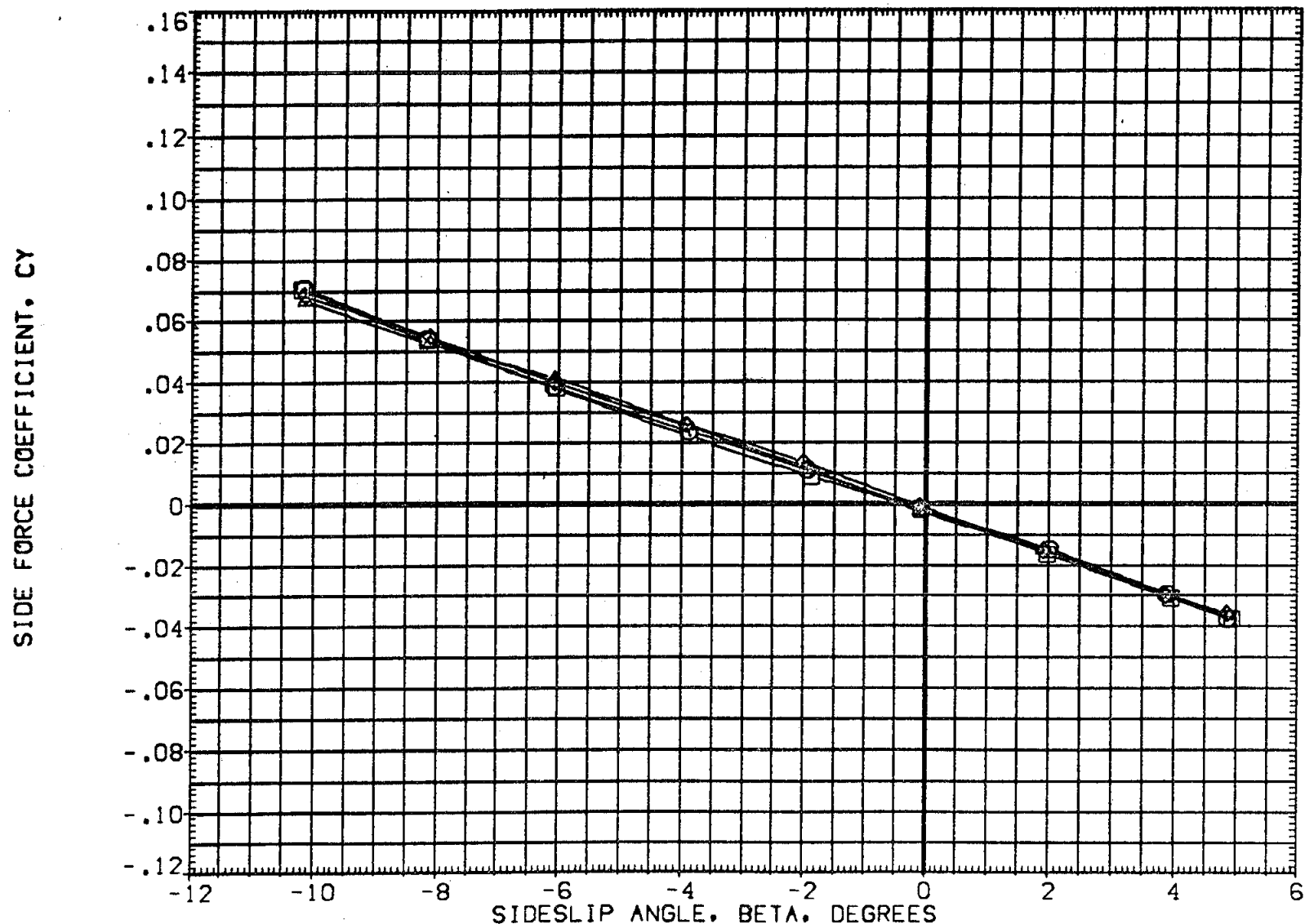


FIG. 10 TOTAL VEHICLE BETA-SWEEP, AILRON AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP002) ○	B26 C9 M7 F7 V116 V8 E37 R5
(AEP001) □	B26 C9 M7 F7 V116 V8 E37 R5
(AEP003) ◇	B26 C9 M7 F7 V116 V8 E37 R5
(AEP004) △	B26 C9 M7 F7 V116 V8 E37 R5

ALPHA	BOFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION		
20.000	-11.700	85.000	.000	SREF	2690.0000	50. FT.
20.000	-11.700	55.000	.000	LREF	174.8000	IN.
30.000	-11.700	85.000	.000	BREF	936.7000	IN.
30.000	-11.700	55.000	.000	XMPP	1076.7000	IN.
				YMPP	.0000	IN.
				ZMPP	375.0000	IN.
				SCALE	.0150	

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

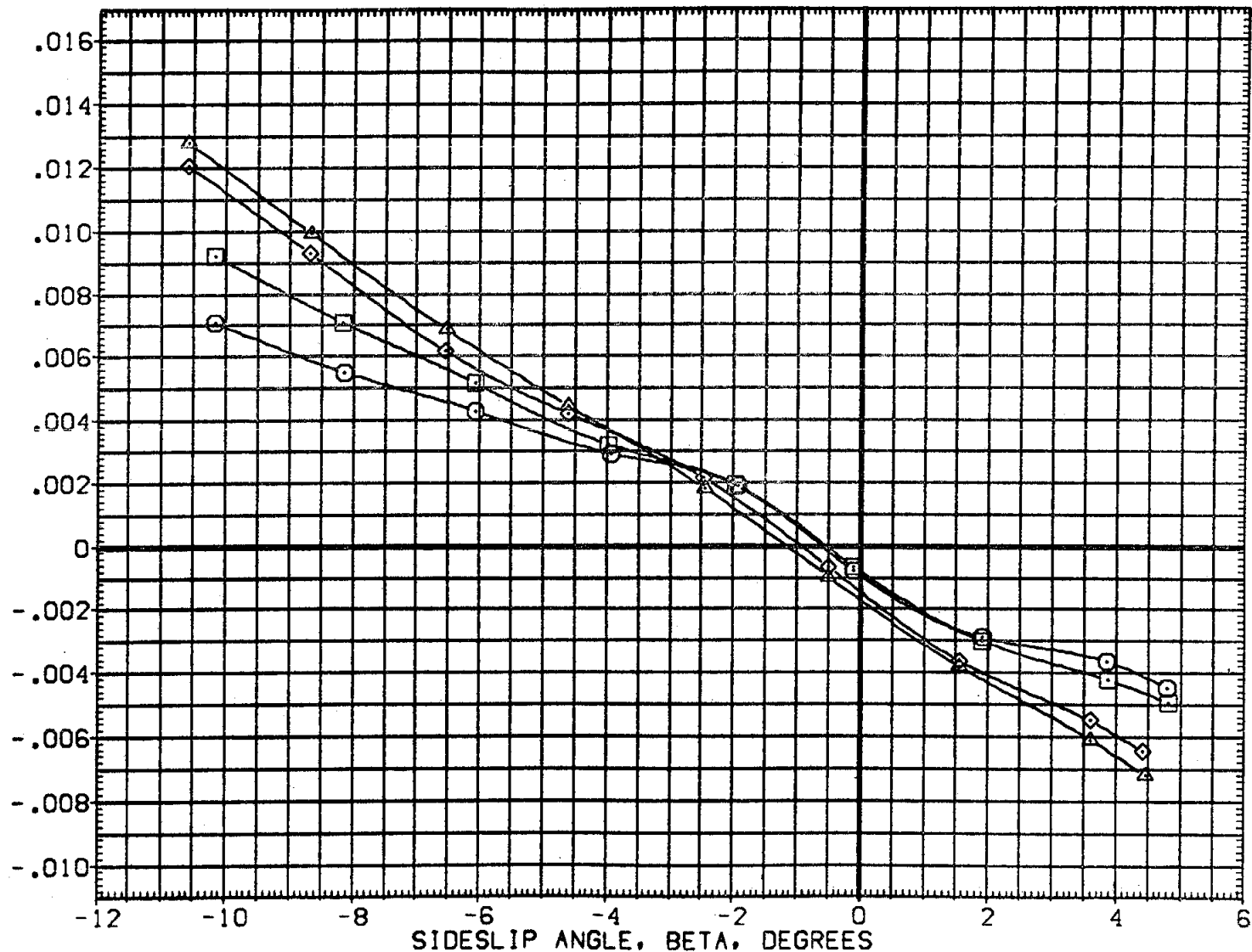


FIG. 10 TOTAL VEHICLE BETA-SWEEP, AILRON AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEPO02) ○	B26 C9 M7 F7 V116 V8 E37 R5
(AEPO01) □	B26 C9 M7 F7 V116 V8 E37 R5
(AEPO03) ◇	B26 C9 M7 F7 V116 V8 E37 R5
(AEPO04) △	B26 C9 M7 F7 V116 V8 E37 R5

ALPHA	BOFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION		
20.000	-11.700	85.000	.000	SREF	2690.0000	SG.FT.
20.000	-11.700	55.000	.000	LREF	474.8000	IN.
30.000	-11.700	85.000	.000	BREF	936.7000	IN.
30.000	-11.700	55.000	.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

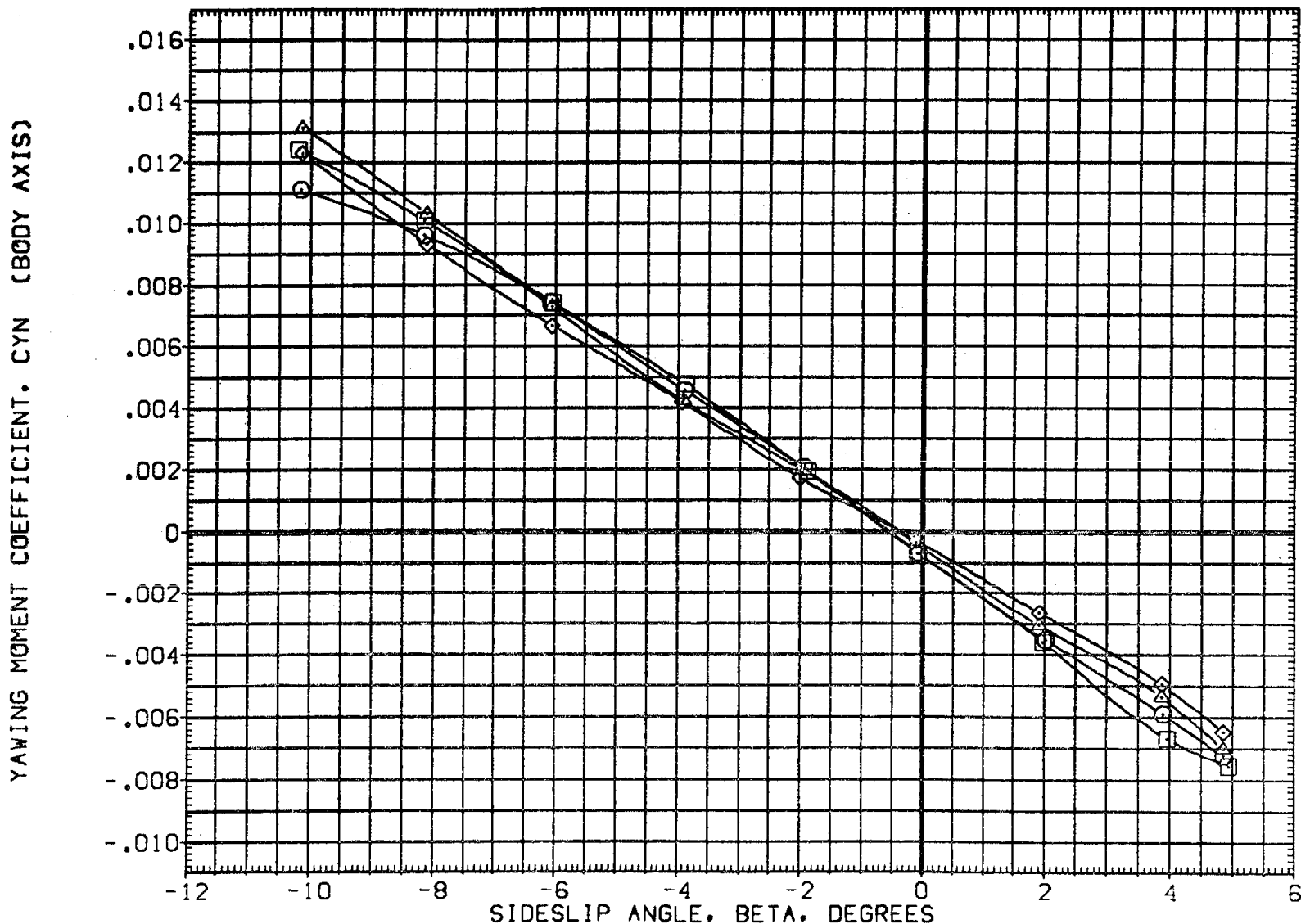


FIG. 10 TOTAL VEHICLE BETA-SWEEP, AILRON AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP002) □	B26 C9 M7 F7 V116 V8 E37 R5
(AEP001) □	B26 C9 M7 F7 V116 V8 E37 R5
(AEP003) ◇	B26 C9 M7 F7 V116 V8 E37 R5
(AEP004) △	B26 C9 M7 F7 V116 V8 E37 R5

ALPHA	BOFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION		
20.000	-11.700	85.000	.000	SREF	2690.0000	SQ.FT.
20.000	-11.700	55.000	.000	LREF	474.8000	IN.
30.000	-11.700	85.000	.000	BREF	936.7000	IN.
30.000	-11.700	55.000	.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

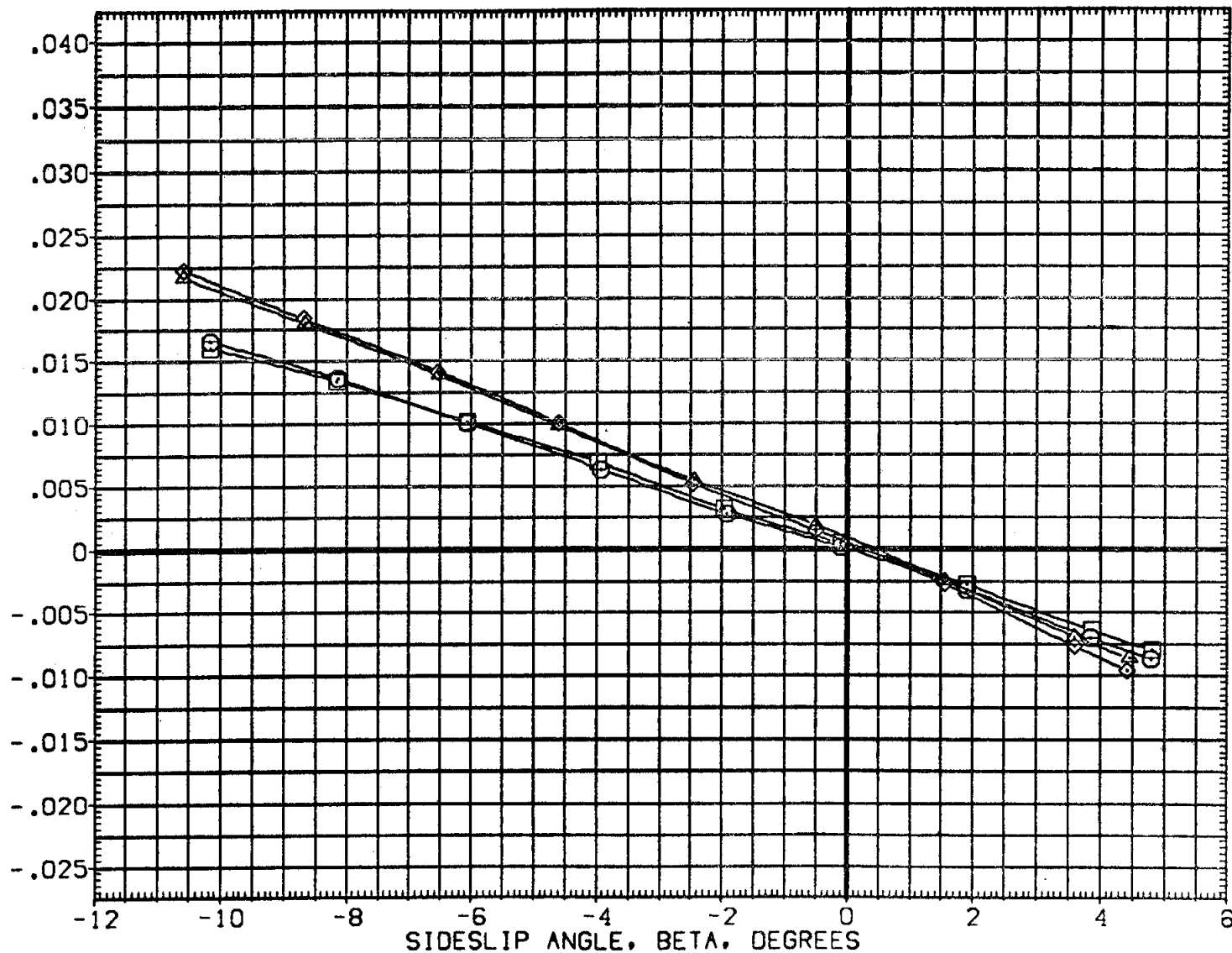


FIG. 10 TOTAL VEHICLE BETA-SWEEP, AILRON AND RUDDER ARE ZERO.

(A)MACH = 5.25

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEPO02)	B26 C9 M7 F7 V116 V8 E37 R5
(AEPO01)	B26 C9 M7 F7 V116 V8 E37 R5
(AEPO03)	B26 C9 M7 F7 V116 V8 E37 R5
(AEPO04)	B26 C9 M7 F7 V116 V8 E37 R5

ALPHA	BOFLAP	SPDBRK	ELEVON	REFERENCE INFORMATION		
20.000	-11.700	85.000	.000	SREF	2690.0000	50. FT.
20.000	-11.700	55.000	.000	LREF	474.8000	IN.
30.000	-11.700	85.000	.000	BREF	936.7000	IN.
30.000	-11.700	55.000	.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

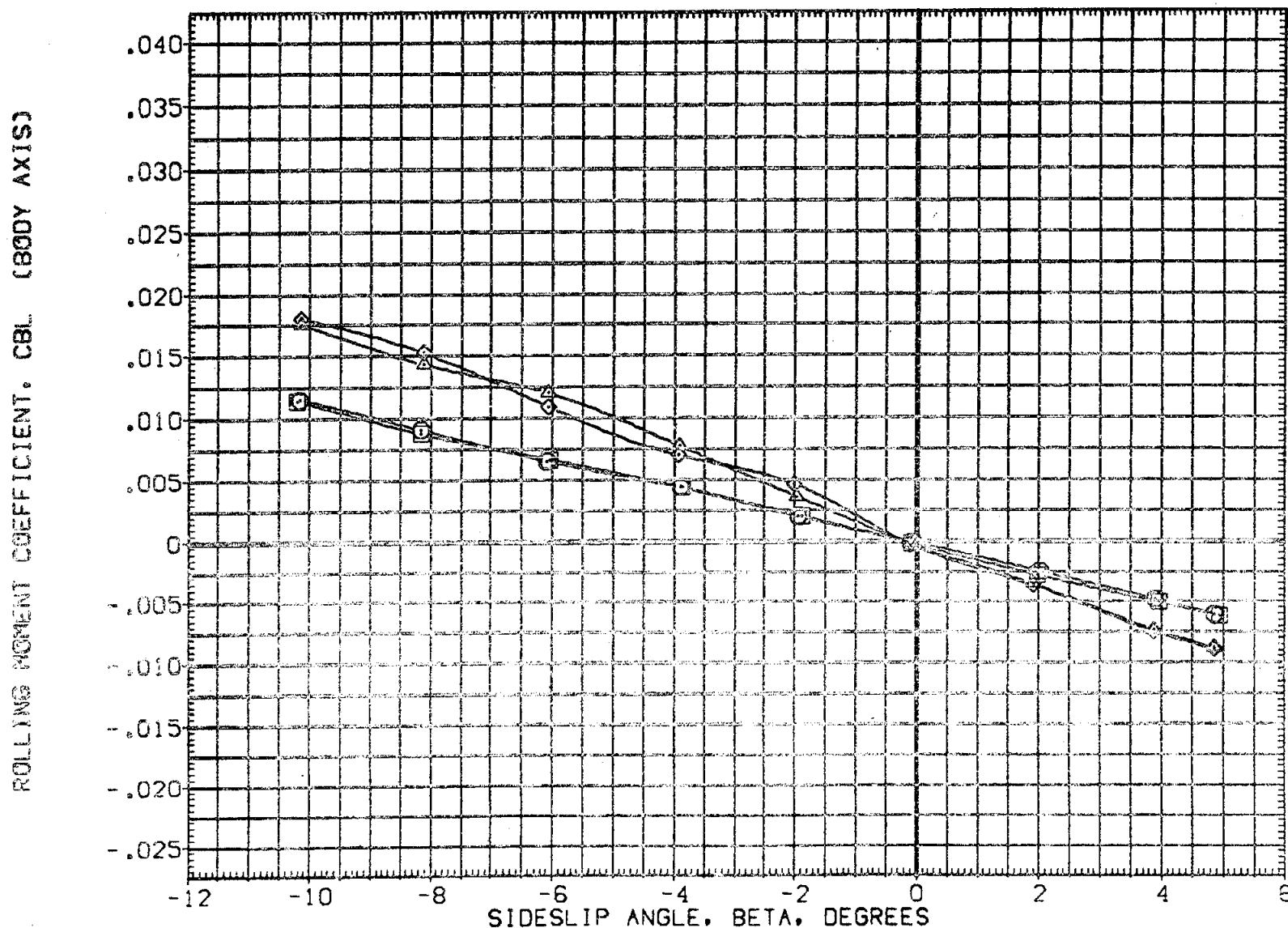


FIG. 10 TOTAL VEHICLE BETA-SWEEP, AILRON AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP015)	826 C9 M7 F7 V116 V8 E37 R5
(AEP012)	826 C9 M7 F7 V116 V8 E37 R5
(AEP022)	826 C9 M7 F7 V116 V8 E26 R5
(AEP023)	826 C9 M7 F7 V116 V8 E26 R5

AILRON	BDFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION		
10.000	-11.700	55.000	.000	SREF	2690.0000	SQ.FT.
.000	-11.700	55.000	.000	LREF	474.8000	IN.
10.000	-11.700	55.000	.000	BREF	936.7000	IN.
.000	-11.700	55.000	.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

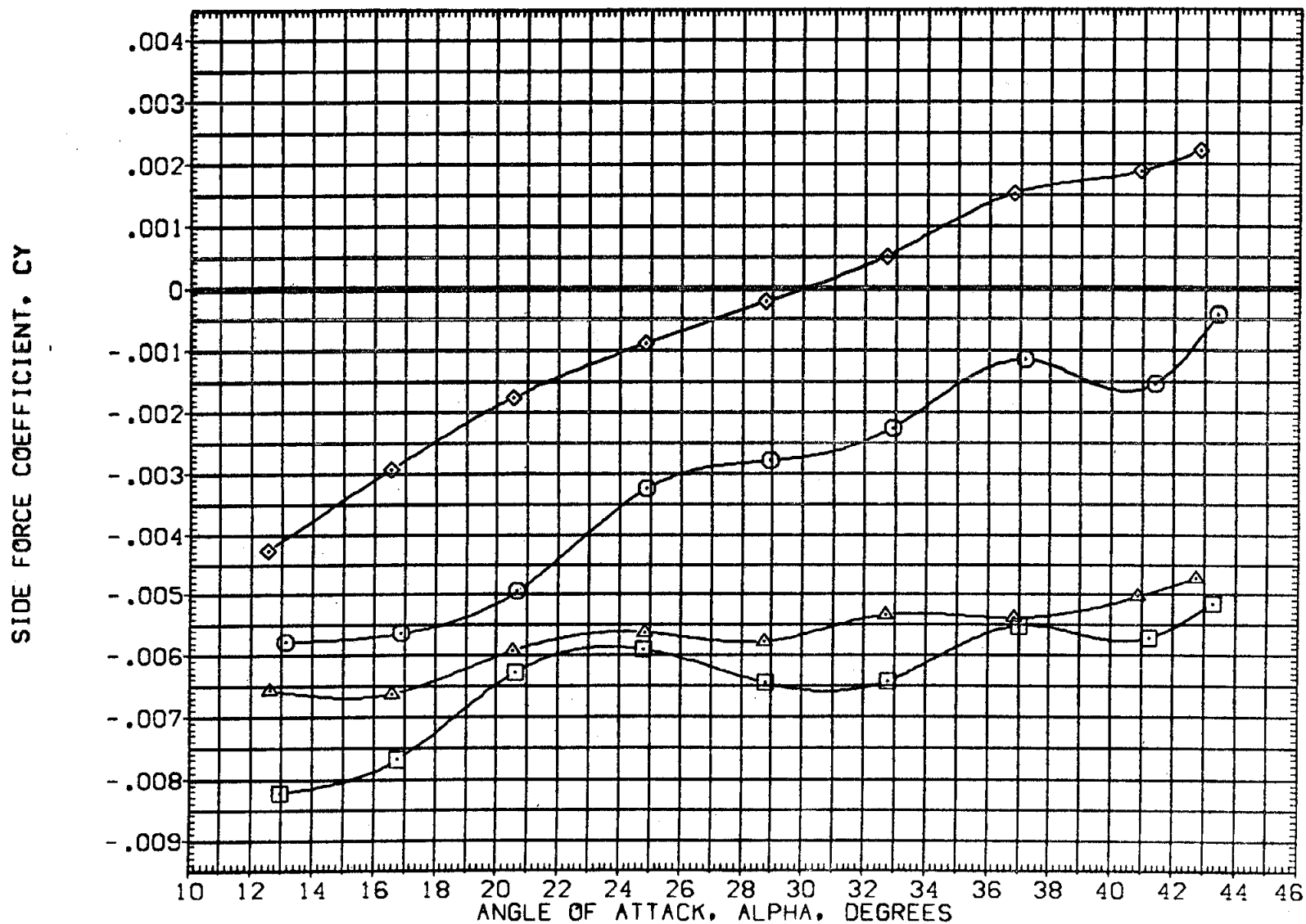


FIG. 11 AILERON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP015)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP012)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP022)	B26 C9 M7 F7 V116 V8 E26 R5
(AEP023)	B26 C9 M7 F7 V116 V8 E26 R5

AILRON	BOFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION
10.000	-11.700	55.000	.000	SREF 2690.0000 SQ.FT.
.000	-11.700	55.000	.000	LREF 474.8000 IN.
10.000	-11.700	55.000	.000	BREF 936.7000 IN.
.000	-11.700	55.000	.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

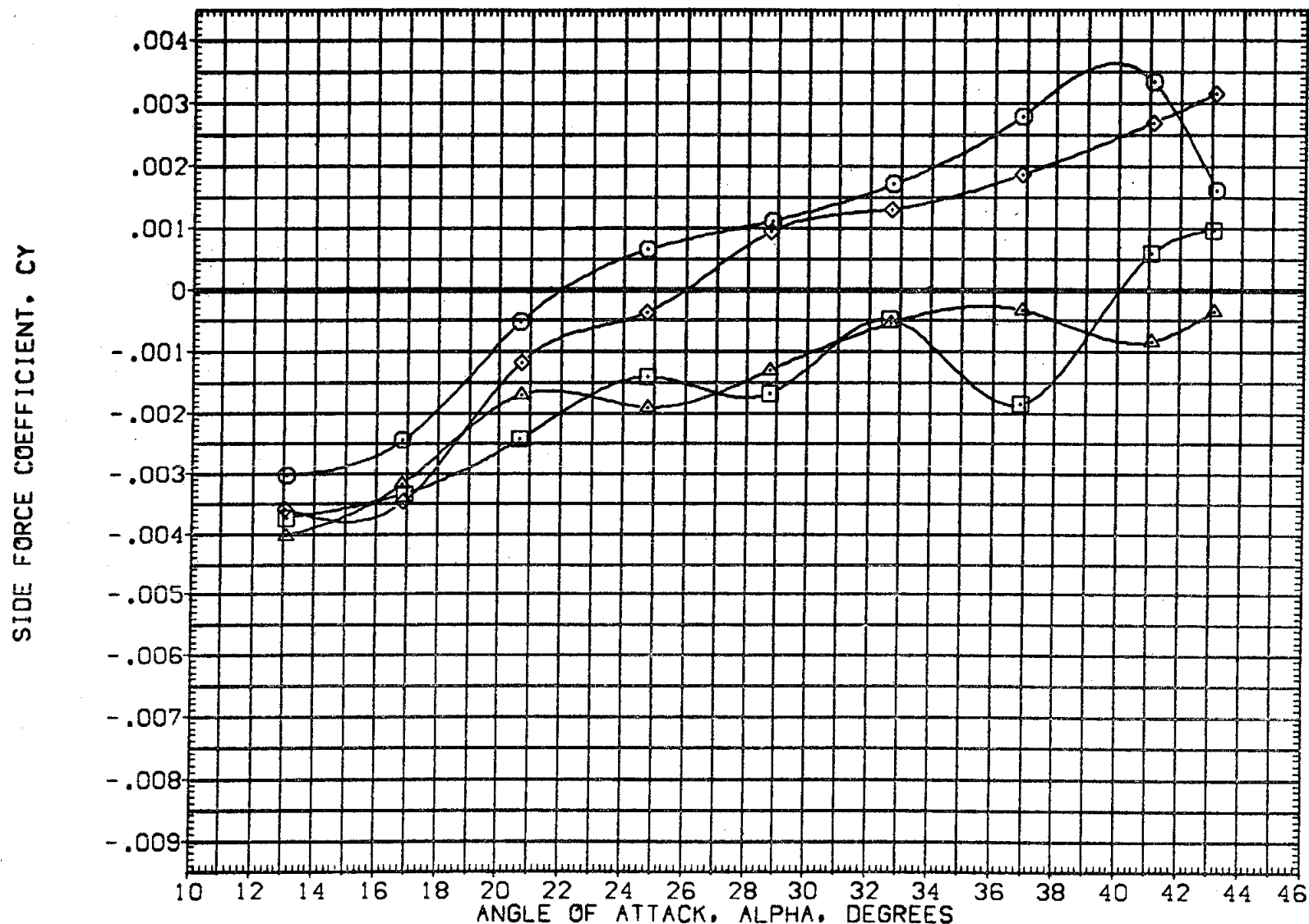


FIG. 11 AILERON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP015)	826 C9 M7 F7 V116 V8 E37 R5
(AEP012)	826 C9 M7 F7 V116 V8 E37 R5
(AEP022)	826 C9 M7 F7 V116 V8 E26 R5
(AEP023)	826 C9 M7 F7 V116 V8 E26 R5

AILRON	BDFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION		
10.000	-11.700	55.000	.000	SREF	2690.0000	50. FT.
.000	-11.700	55.000	.000	LREF	474.8000	IN.
10.000	-11.700	55.000	.000	BREF	936.7000	IN.
.000	-11.700	55.000	.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

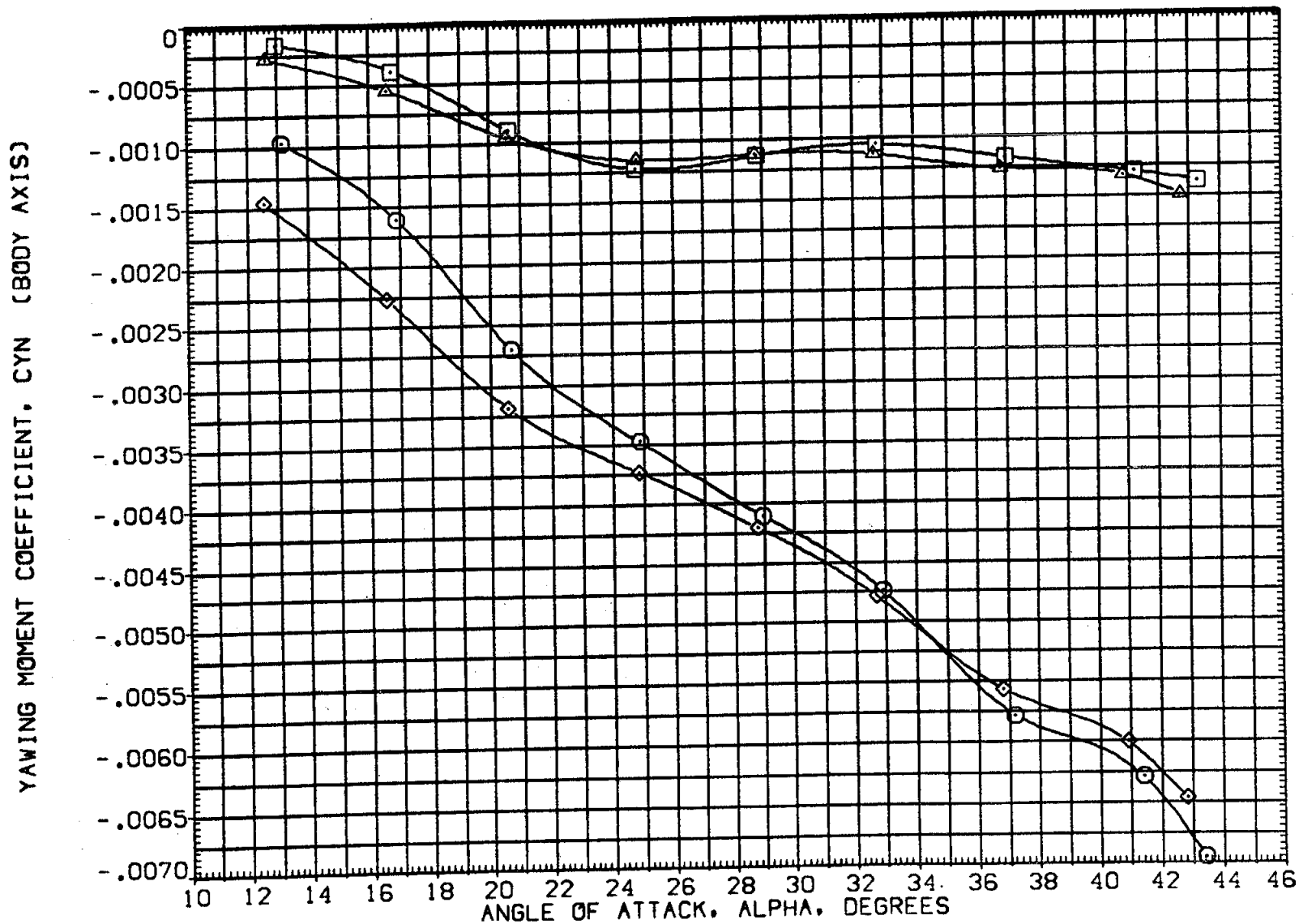


FIG. 11 AILERON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.
(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP015)	826 C9 M7 F7 V116 V8 E37 R5
(AEP012)	826 C9 M7 F7 V116 V8 E37 R5
(AEP022)	826 C9 M7 F7 V116 V8 E26 R5
(AEP023)	826 C9 M7 F7 V116 V8 E26 R5

AILRON	BDFLAP	SPDBRK	ELEVON	REFERENCE INFORMATION
10.000	-11.700	55.000	.000	SREF 2690.0000 SQ.FT.
.000	-11.700	55.000	.000	LREF 474.8000 IN.
10.000	-11.700	55.000	.000	BREF 936.7000 IN.
.000	-11.700	55.000	.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

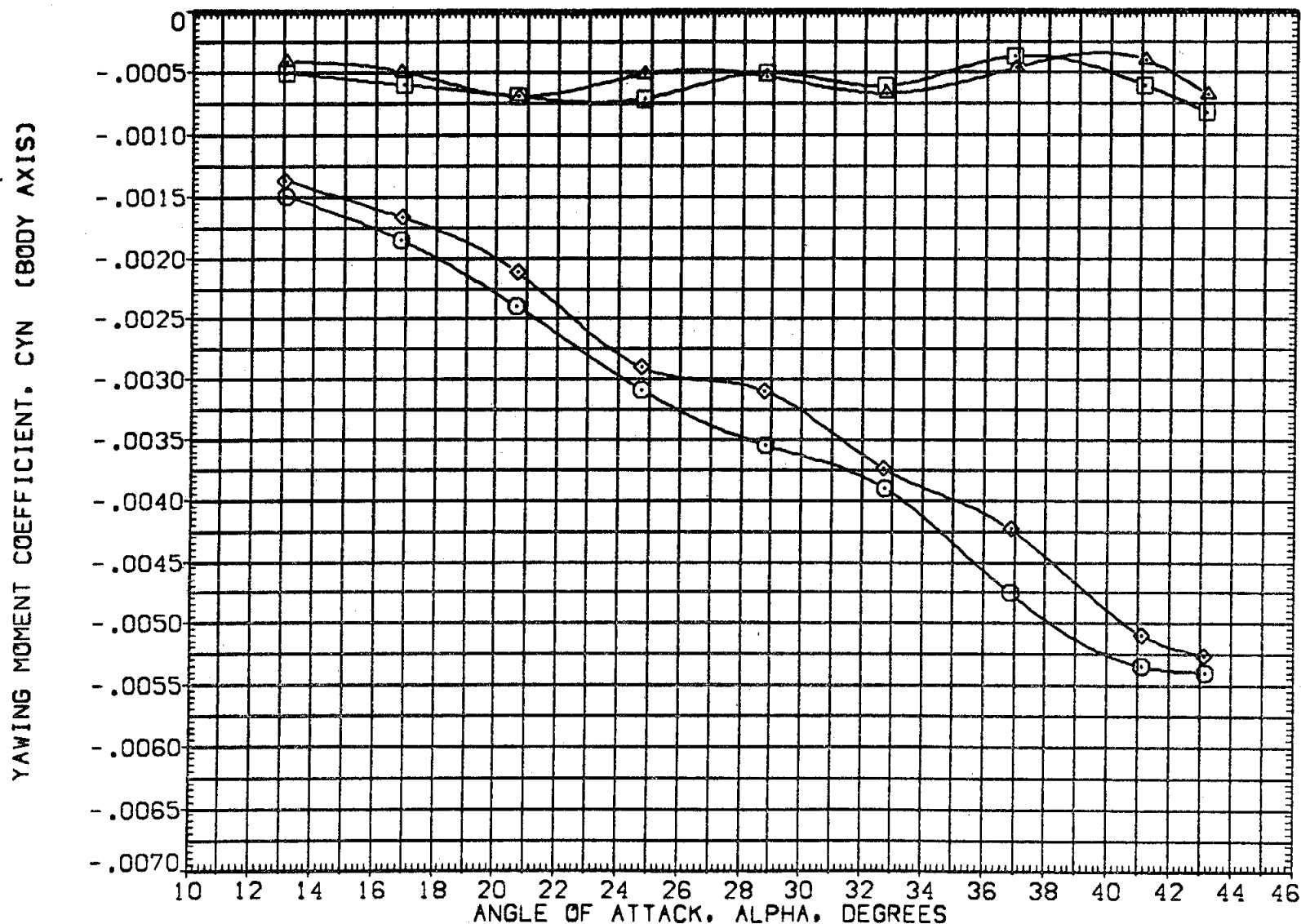


FIG. 11 AILERON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP015)	826 C9 M7 F7 V116 V8 E37 R5
(AEP012)	826 C9 M7 F7 V116 V8 E37 R5
(AEP022)	826 C9 M7 F7 V116 V8 E26 R5
(AEP023)	826 C9 M7 F7 V116 V8 E26 R5

AILRON	BDFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION		
10.000	-11.700	55.000	.000	SREF	2690.0000	50.FT.
.000	-11.700	55.000	.000	LREF	474.8000	IN.
10.000	-11.700	55.000	.000	BREF	936.7000	IN.
.000	-11.700	55.000	.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

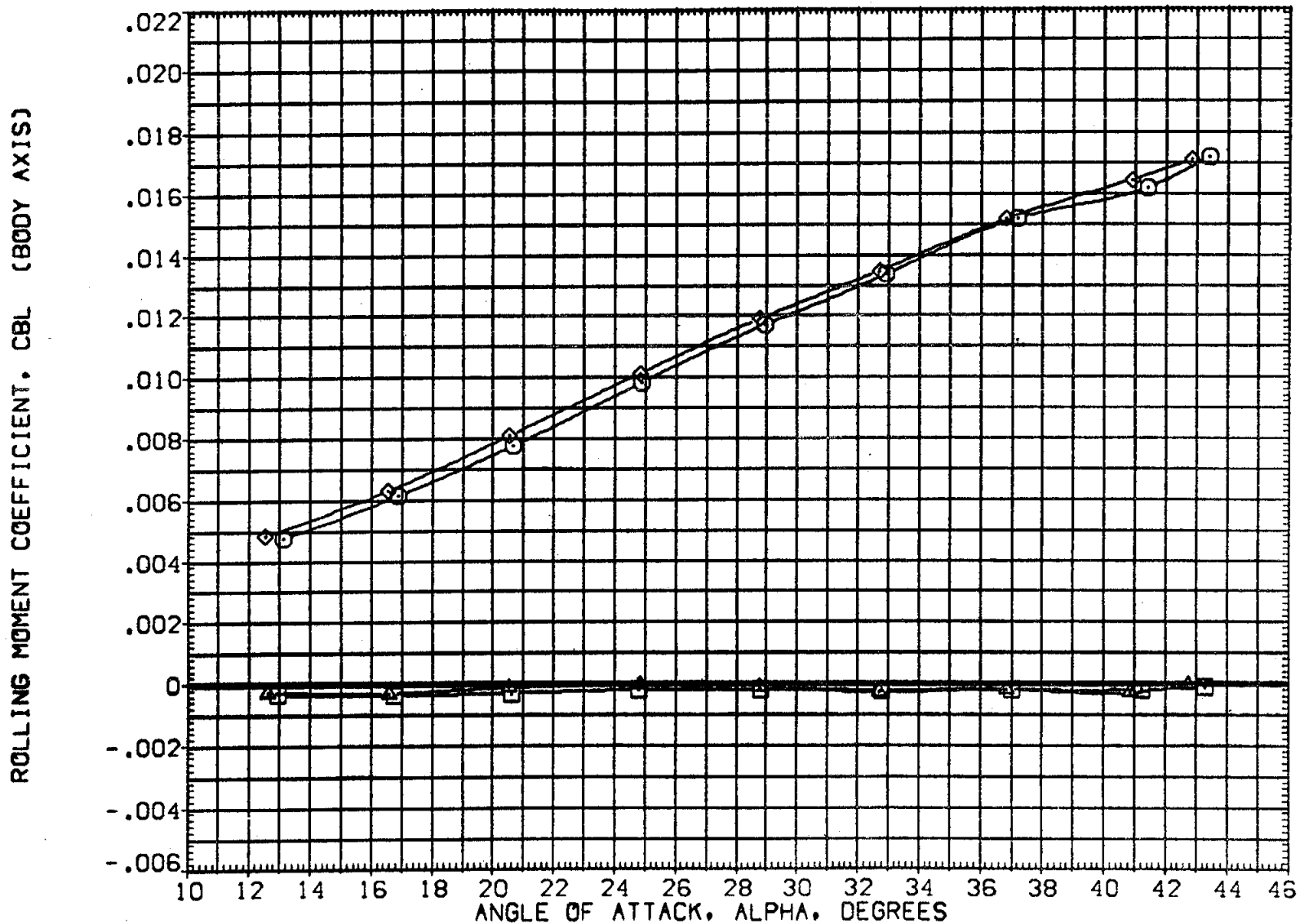


FIG. 11 AILERON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP015)	826 C9 M7 F7 V116 V8 E37 R5
(AEP012)	826 C9 M7 F7 V116 V8 E37 R5
(AEP022)	826 C9 M7 F7 V116 V8 E26 R5
(AEP023)	826 C9 M7 F7 V116 V8 E26 R5

AILRON	BDFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION	
10.000	-11.700	55.000	.000	SREF	2690.0000 SQ.FT.
.000	-11.700	55.000	.000	LREF	474.8000 IN.
10.000	-11.700	55.000	.000	BREF	936.7000 IN.
.000	-11.700	55.000	.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

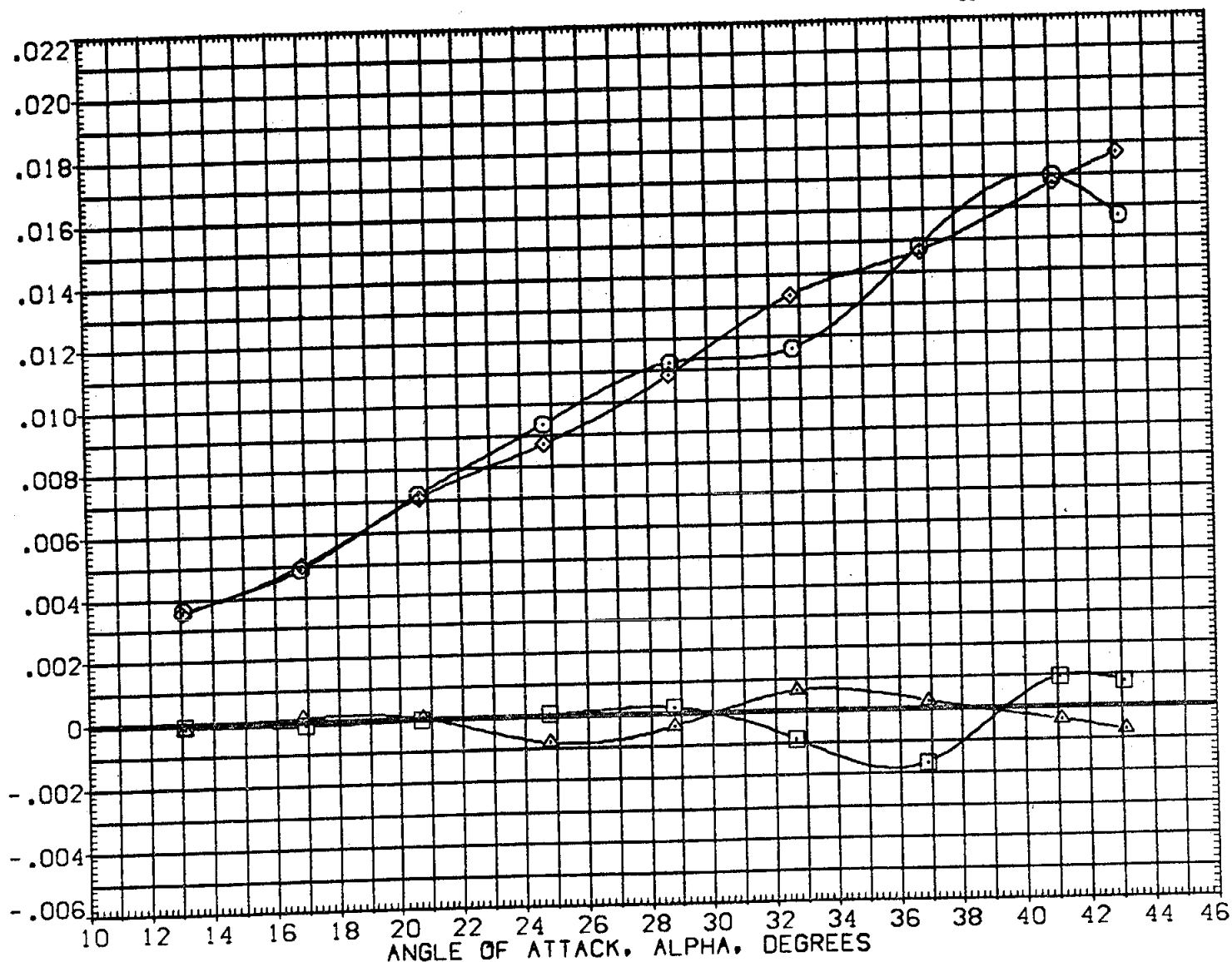


FIG. 11 AILERON EFFECTIVENESS, BETA AND RUDDER ARE ZERO.
(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP010)	826 C9 M7 F7 V116 V8 E37 R5
(AEP011)	826 C9 M7 F7 V116 V8 E37 R5
(AEP009)	826 C9 M7 F7 V116 V8 E37 R5
(AEP012)	826 C9 M7 F7 V116 V8 E37 R5

RUDDER	SPDRK	BOFLAP	BETA	REFERENCE INFORMATION		
-10.000	85.000	-11.700	.000	SREF	2690.0000	SO.FT.
.000	85.000	-11.700	.000	LREF	474.8000	IN.
-10.000	55.000	-11.700	.000	BREF	936.7000	IN.
.000	55.000	-11.700	.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

SIDE FORCE COEFFICIENT, CY

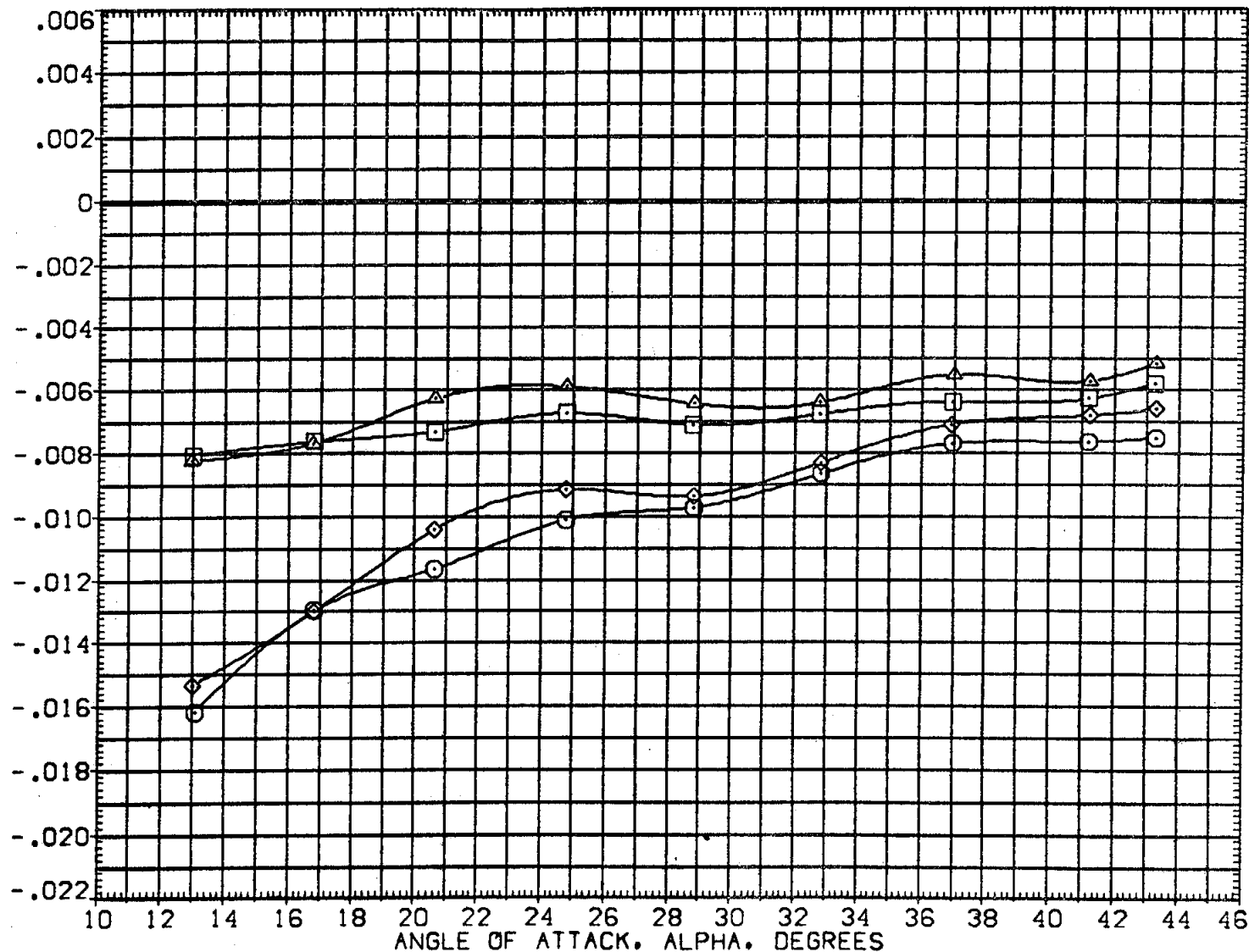


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP010)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP011)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP009)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP012)	B26 C9 M7 F7 V116 V8 E37 R5

RUDDER	SPDRK	BDFLAP	BETA	REFERENCE INFORMATION		
-10.000	85.000	-11.700	.000	SREF	2690.0000	SQ.FT.
.000	85.000	-11.700	.000	LREF	474.8000	IN.
-10.000	55.000	-11.700	.000	BREF	936.7000	IN.
.000	55.000	-11.700	.000	XMRF	1076.7000	IN.
				YMRF	.0000	IN.
				ZMRF	375.0000	IN.
				SCALE	.0150	

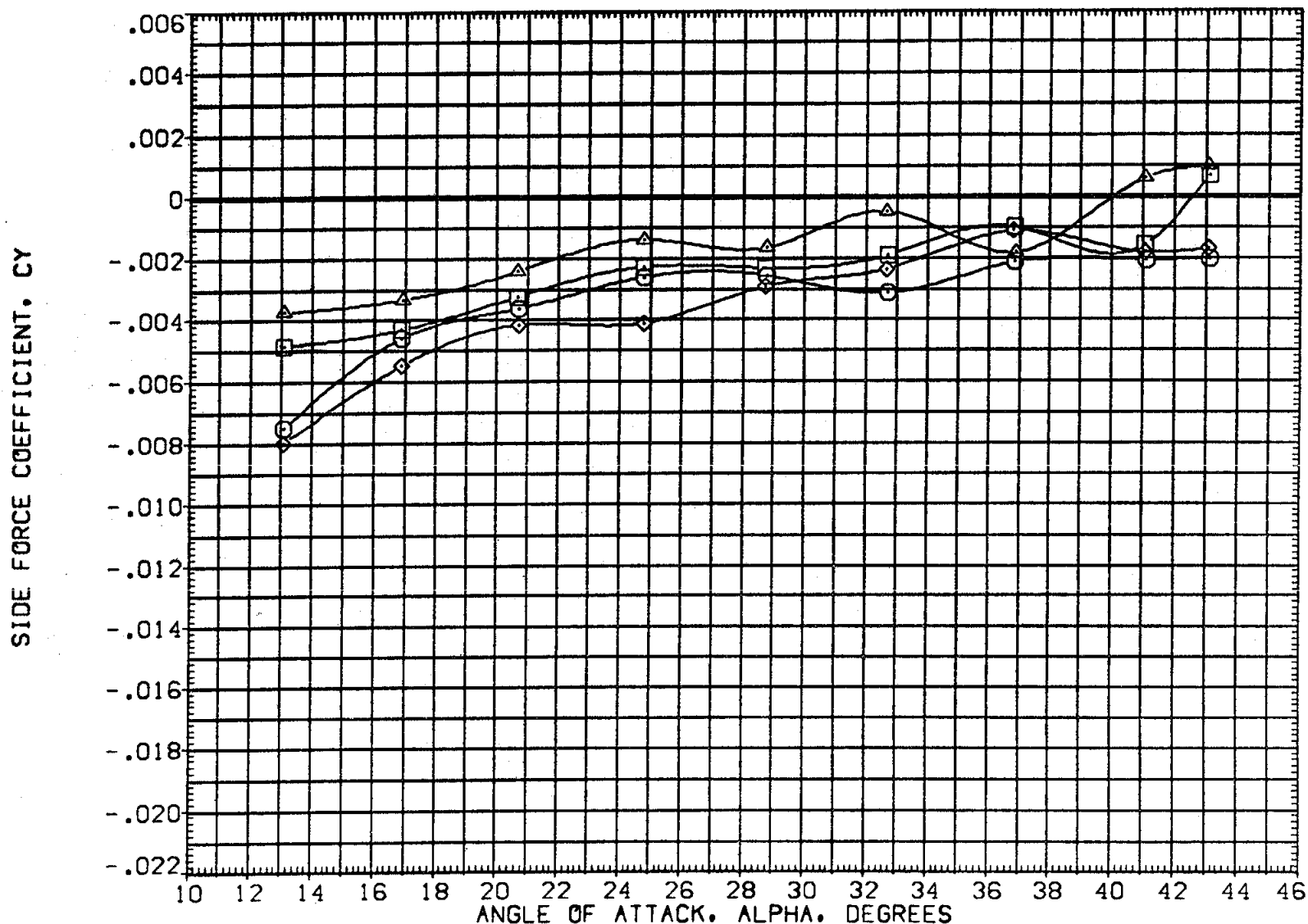


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP010)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP011)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP009)	B26 C9 M7 F7 V116 V8 E37 R5
(AEP012)	B26 C9 M7 F7 V116 V8 E37 R5

RUDDER	SPOBRK	BOFLAP	BETA	REFERENCE INFORMATION		
-10.000	85.000	-11.700	.000	SREF	2690.0000	50. FT.
.000	85.000	-11.700	.000	LREF	474.8000	IN.
-10.000	55.000	-11.700	.000	BREF	936.7000	IN.
.000	55.000	-11.700	.000	XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

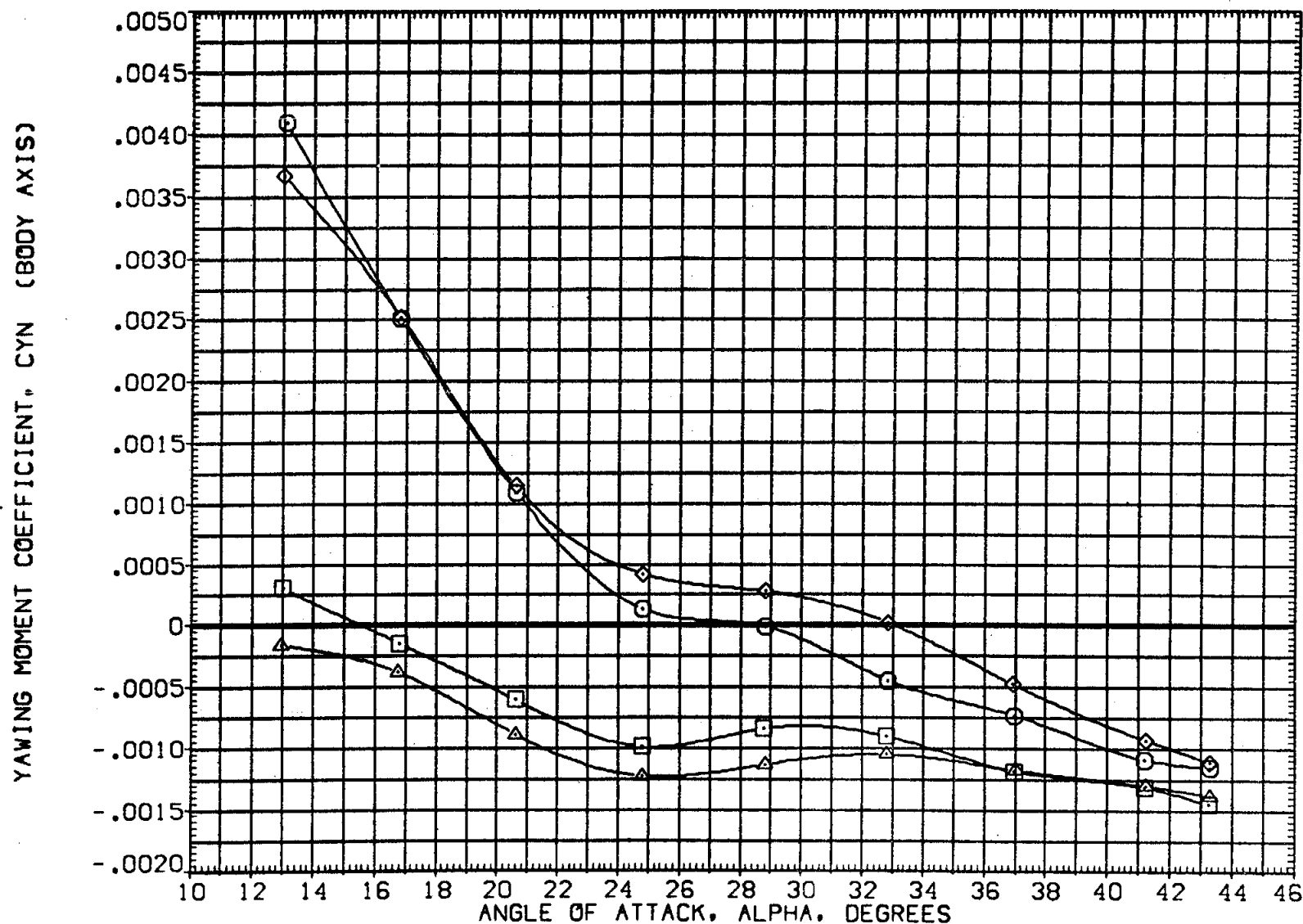


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP010) ○	B26 C9 M7 F7 V116 V8 E37 R3
(AEP011) □	B26 C9 M7 F7 V116 V8 E37 R3
(AEP009) ◇	B26 C9 M7 F7 V116 V8 E37 R3
(AEP012) △	B26 C9 M7 F7 V116 V8 E37 R3

RUDDER	SPOBRK	BDFLAP	BETA	REFERENCE INFORMATION
-10.000	85.000	-11.700	.000	SREF 2690.0000 SQ.FT.
.000	85.000	-11.700	.000	LREF 474.8000 IN.
-10.000	55.000	-11.700	.000	BREF 936.7000 IN.
.000	55.000	-11.700	.000	XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

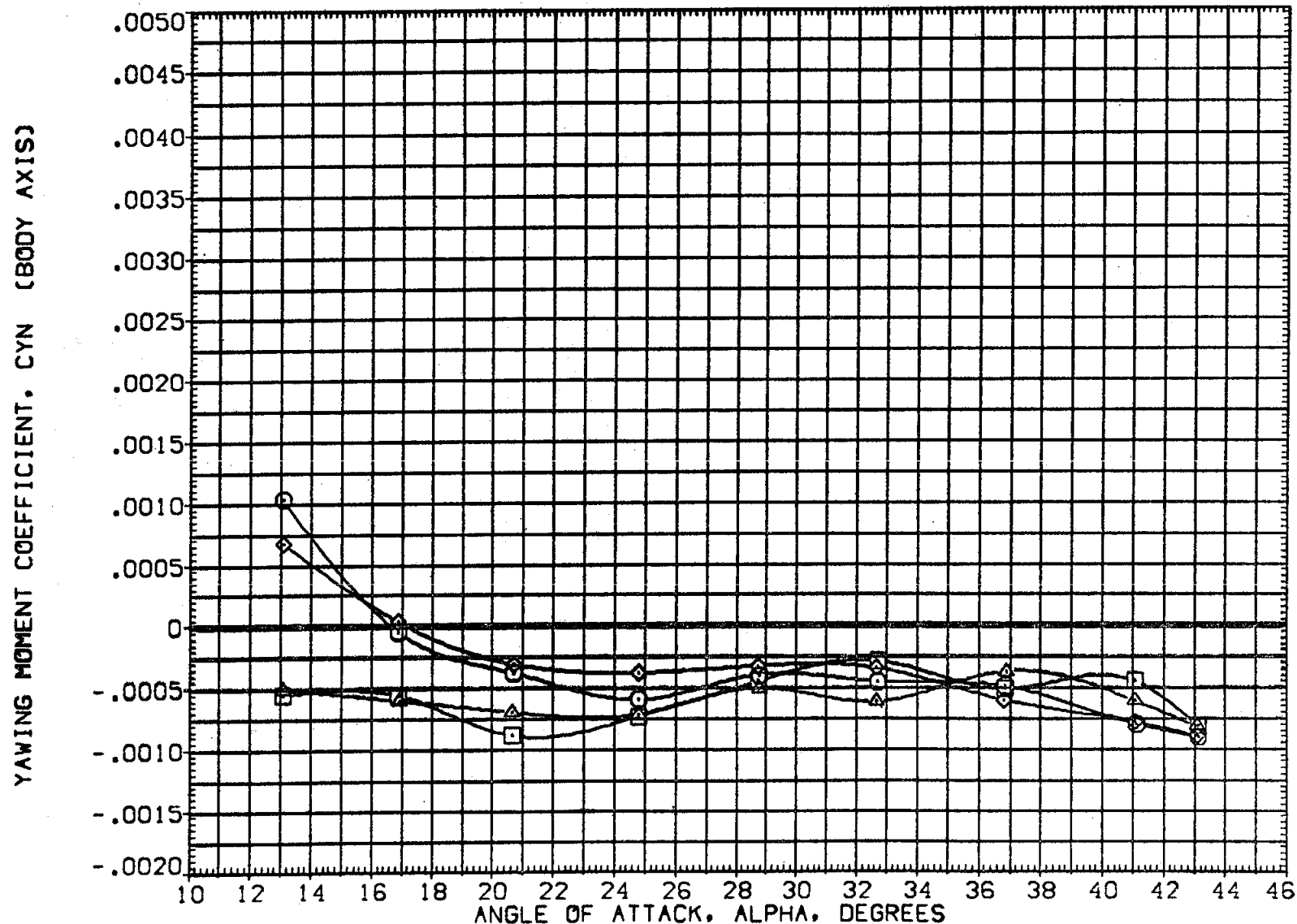


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP010) ○	826 C9 M7 F7 V116 V8 E37 R5
(AEP011) □	826 C9 M7 F7 V116 V8 E37 R5
(AEP009) ◇	826 C9 M7 F7 V116 V8 E37 R5
(AEP012) △	826 C9 M7 F7 V116 V8 E37 R5

RUDDER	SPOBRK	BDFLAP	BETA	REFERENCE INFORMATION	
-10.000	85.000	-11.700	.000	SREF	2690.0000 SQ.FT.
.000	85.000	-11.700	.000	LREF	474.8000 IN.
-10.000	55.000	-11.700	.000	BREF	936.7000 IN.
.000	55.000	-11.700	.000	XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

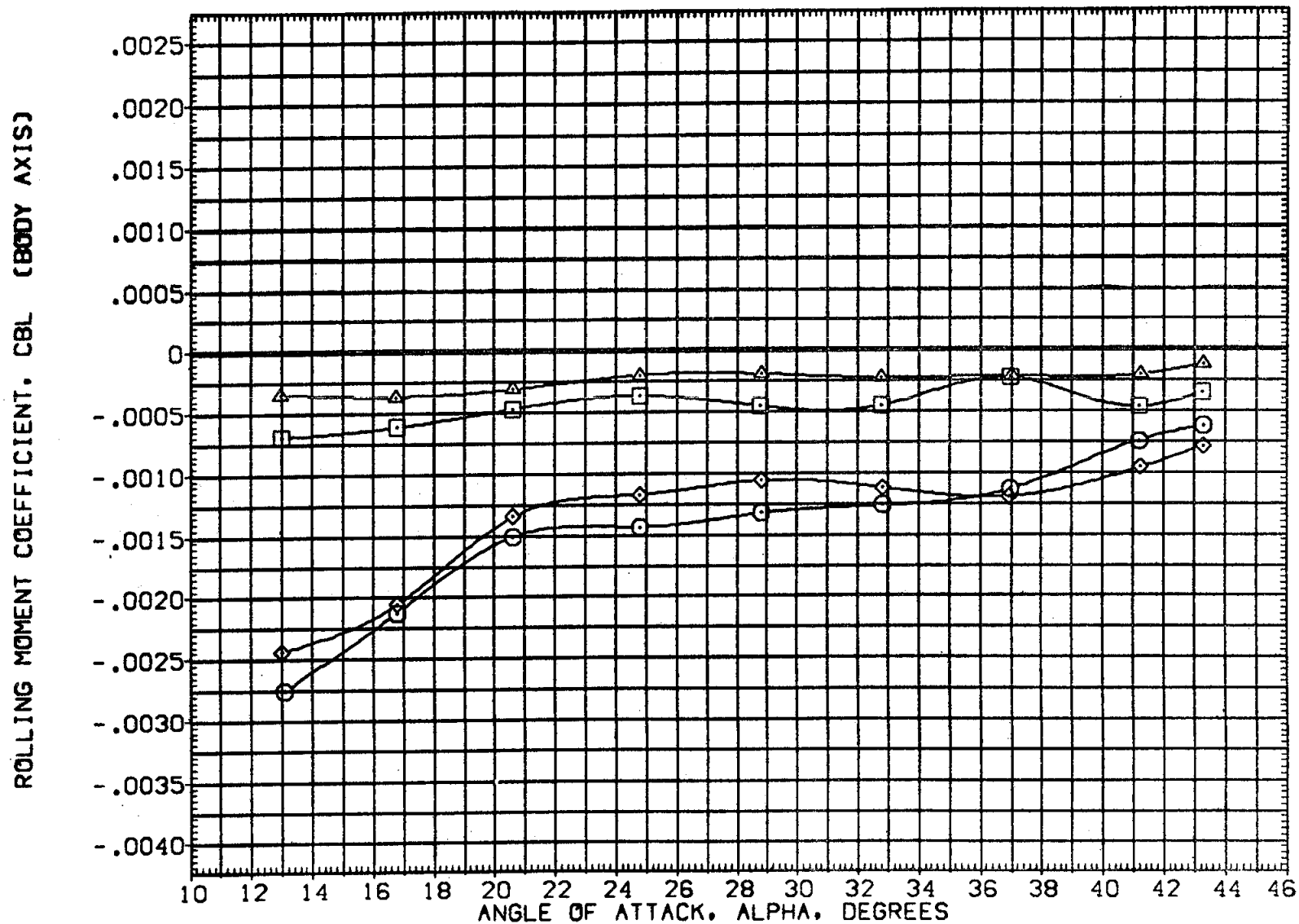


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP010) ○	B26 C9 M7 F7 V116 V8 E37 R5
(AEP011) □	B26 C9 M7 F7 V116 V8 E37 R5
(AEP009) ◇	B26 C9 M7 F7 V116 V8 E37 R5
(AEP012) △	B26 C9 M7 F7 V116 V8 E37 R5

RUDDER	SPDBRK	BOFLAP	BETA	REFERENCE INFORMATION		
-10.000	85.000	-11.700	.000	SREF	2690.0000	SQ.FT.
.000	85.000	-11.700	.000	LREF	474.8000	IN.
-10.000	55.000	-11.700	.000	BREF	936.7000	IN.
.000	55.000	-11.700	.000	XMRF	1076.7000	IN.
				YMRF	.0000	IN.
				ZMRF	375.0000	IN.
				SCALE	.0150	

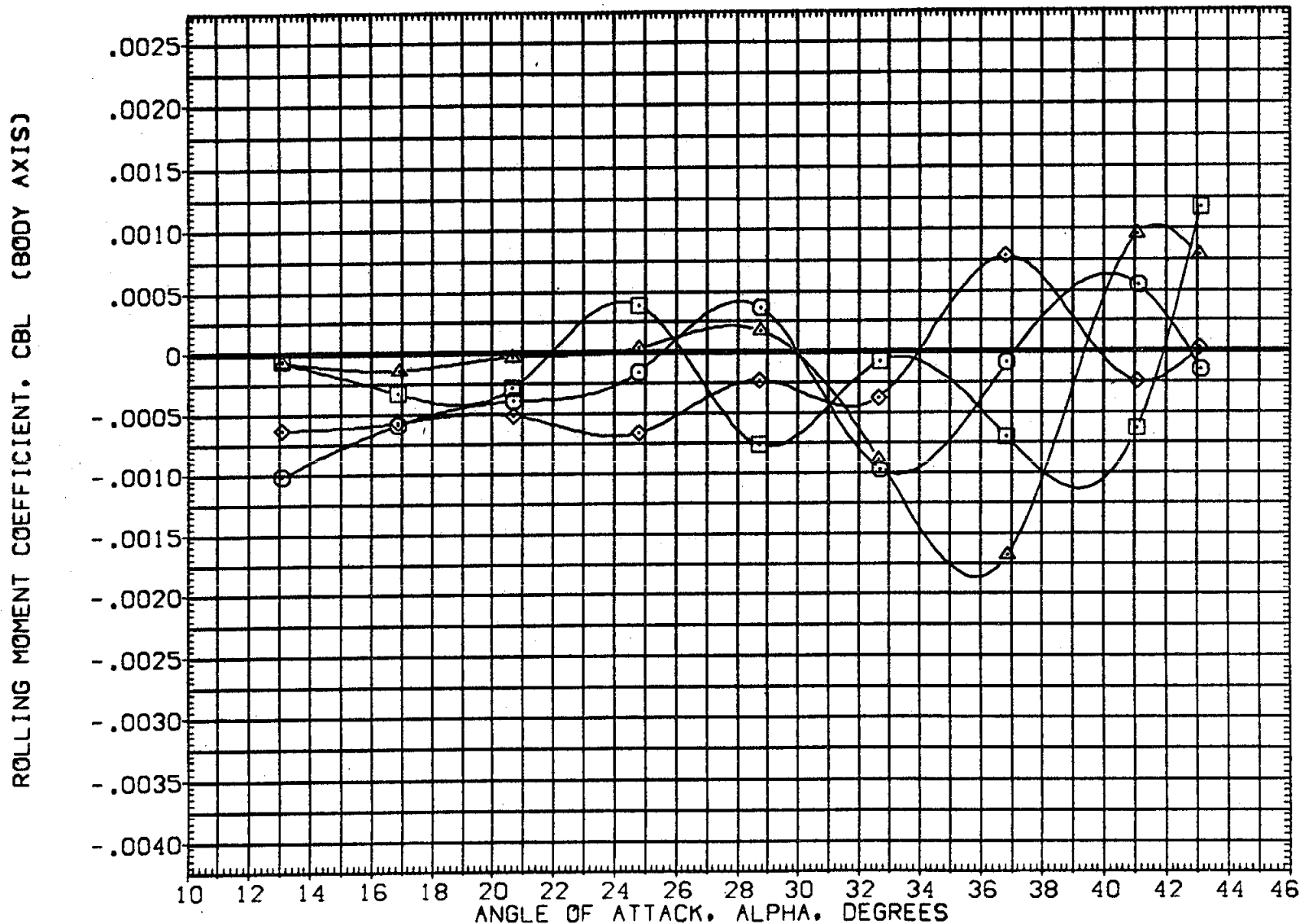


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
{AEPO17}	B26 C9 M7 F7 V116 V8 E37 R5
{AEPO18}	B26 C9 M7 F7 V116 V8 E37 R5
{AEPO19}	DATA NOT AVAILABLE

RUDDER	SPOBRK	BOFLAP	BETA	REFERENCE INFORMATION		
-10.000	25.000	-11.700	.000	SREF	2690.0000	SQ.FT.
.000	25.000	-11.700	.000	LREF	474.8000	IN.
-10.000	.000	-11.700	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

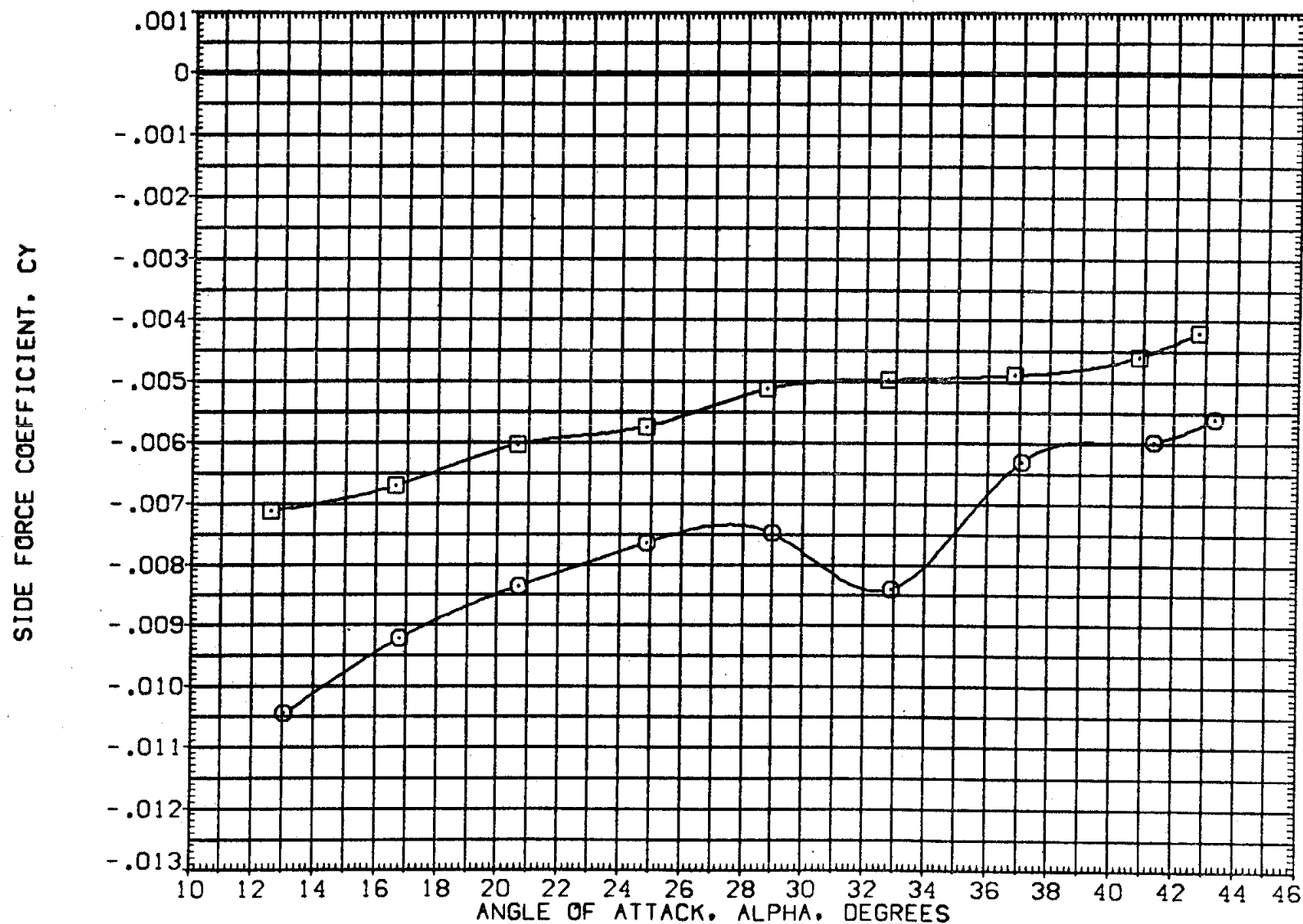


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(A)MACH = 5.25



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[AEP017]	○ DATA NOT AVAILABLE
[AEP018]	□ DATA NOT AVAILABLE
[AEP019]	◇ B26 C9 M7 F7 V116 V8 E37 R5

RUDDER	SPOBRK	BOFLAP	BETA	REFERENCE INFORMATION
-10.000	25.000	-11.700	.000	SREF 2690.0000 SQ.FT.
.000	25.000	-11.700	.000	LREF 474.8000 IN.
-10.000	.000	-11.700	.000	BREF 936.7000 IN.
				XMRP 1076.7000 IN.
				YMRP .0000 IN.
				ZMRP 375.0000 IN.
				SCALE .0150

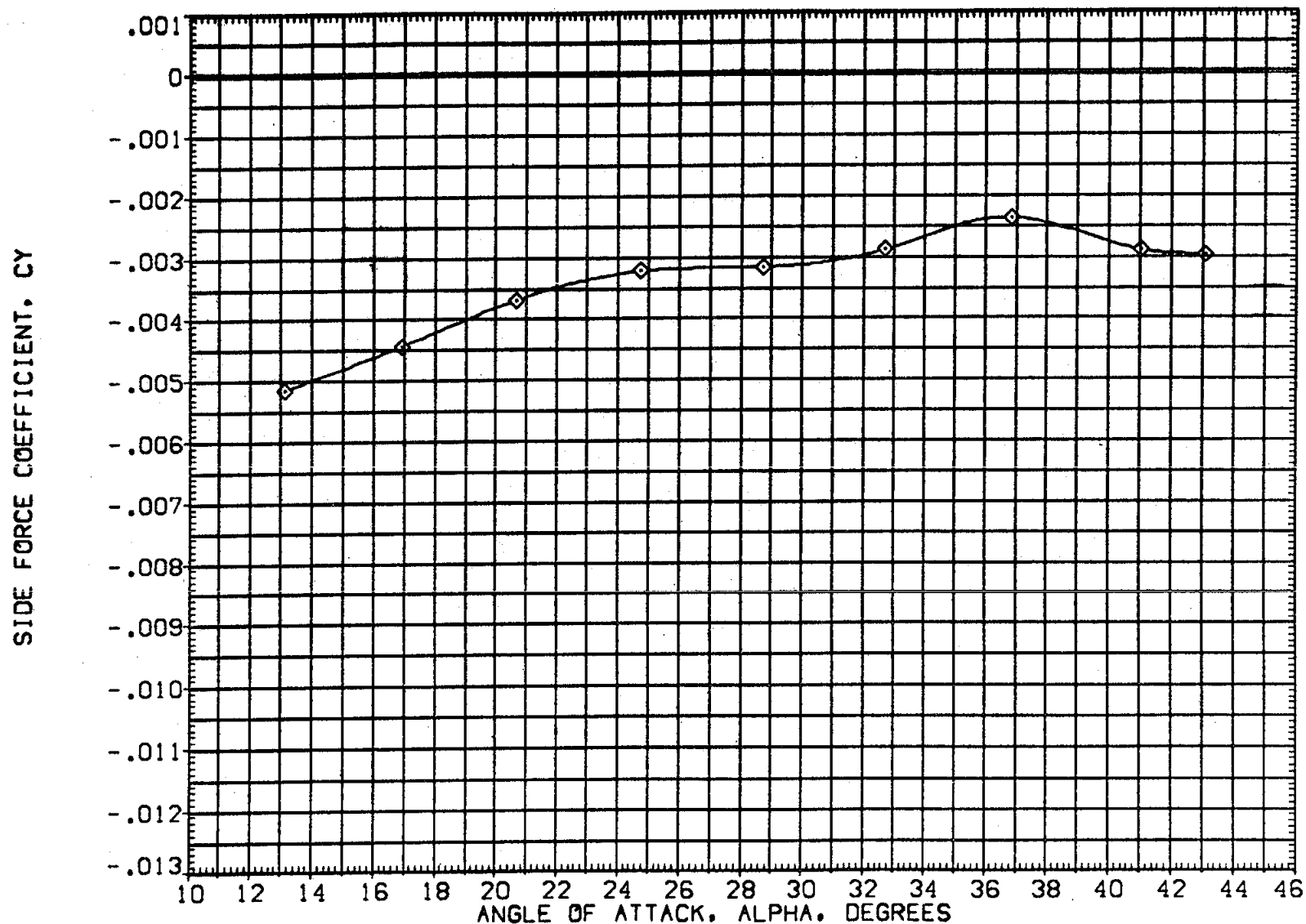


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AEP017) ○ B26 C9 M7 F7 V116 V8 E37 R5
 (AEP018) □ B26 C9 M7 F7 V116 V8 E37 R5
 (AEP019) ◇ DATA NOT AVAILABLE

RUDDER	SPOBRK	BOFLAP	BETA	REFERENCE INFORMATION	
-10.000	25.000	-11.700	.000	SREF	2690.0000 SQ.FT.
.000	25.000	-11.700	.000	LREF	474.8000 IN.
-10.000	.000	-11.700	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

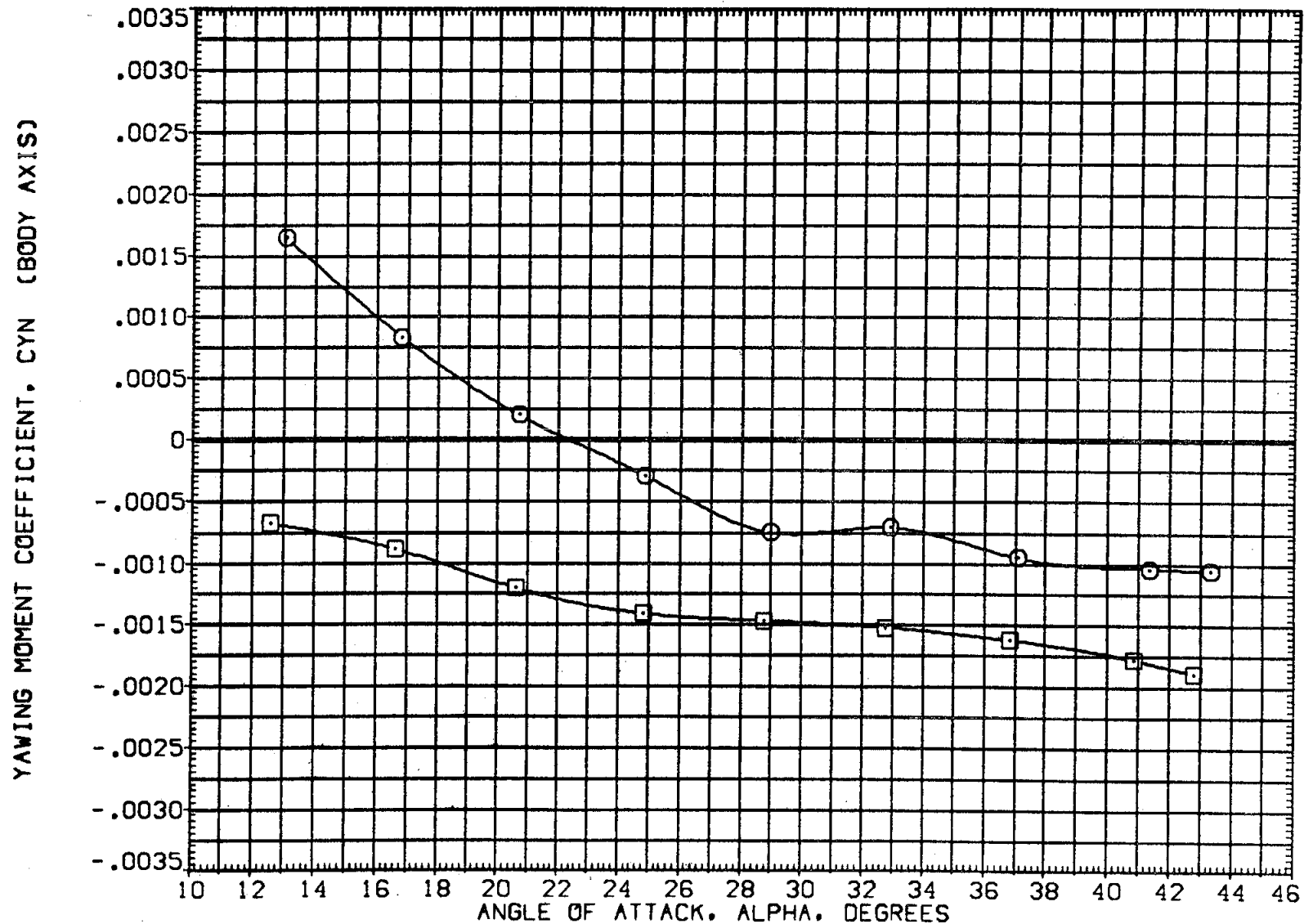


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(A)MACH = 5.25



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AEPO17) ○ DATA NOT AVAILABLE
 (AEPO18) □ DATA NOT AVAILABLE
 (AEPO19) ◇ B26 C9 M7 F7 V116 V8 E37 R5

RUDDER	SPDBRK	80FLAP	BETA	REFERENCE INFORMATION		
-10.000	25.000	-11.700	.000	SREF	2690.0000	SQ.FT.
.000	25.000	-11.700	.000	LREF	474.8000	IN.
-10.000	.000	-11.700	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

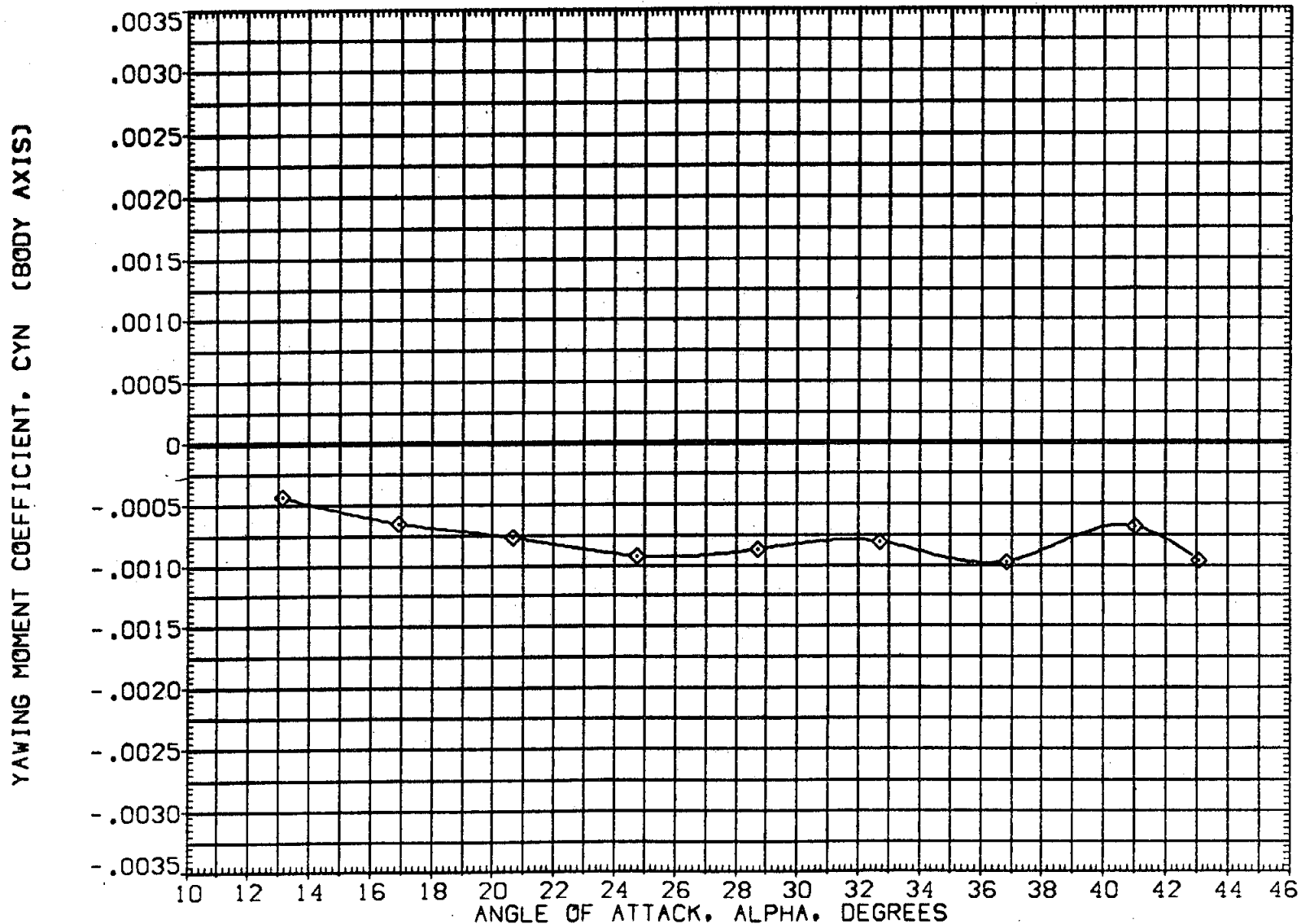


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(B)MACH = 10.27

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AEP017) \square B26 C9 M7 F7 V118 V8 E37 R5
 (AEP018) \square B26 C9 M7 F7 V118 V8 E37 R5
 (AEP019) \diamond DATA NOT AVAILABLE

RUDDER	SPDRK	BOFLAP	BETA	REFERENCE INFORMATION		
-10.000	25.000	-11.700	.000	SREF	2690.0000	SQ.FT.
.000	25.000	-11.700	.000	LREF	474.8000	IN.
-10.000	.000	-11.700	.000	BREF	936.7000	IN.
				XMRP	1076.7000	IN.
				YMRP	.0000	IN.
				ZMRP	375.0000	IN.
				SCALE	.0150	

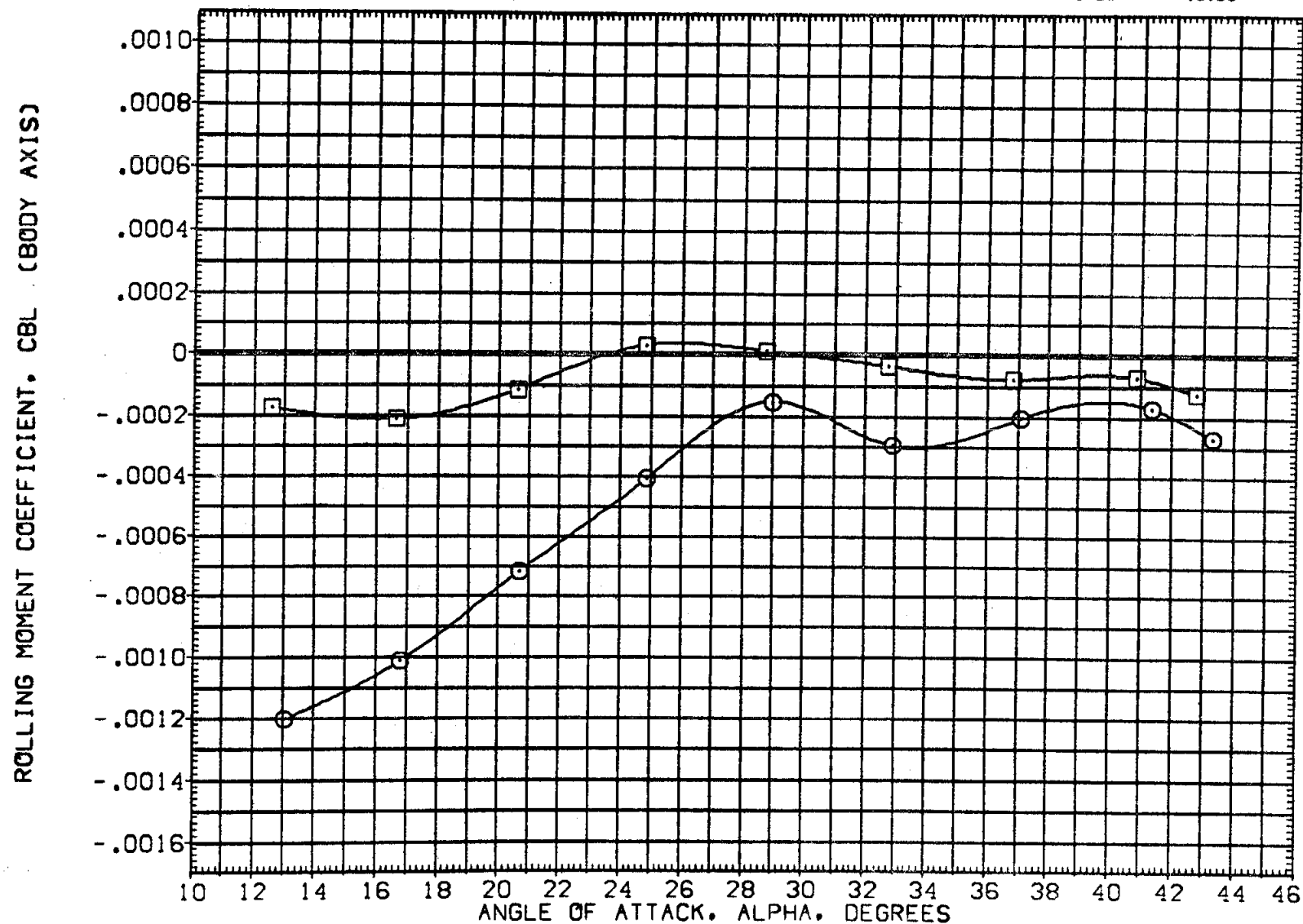


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.

(A)MACH = 5.25



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[AEPO17]	DATA NOT AVAILABLE
[AEPO18]	DATA NOT AVAILABLE
[AEPO19]	826 C9 M7 F7 V116 V8 E37 R5

RUDDER	SPDRK	BDFLAP	BETA	REFERENCE INFORMATION	
-10.000	25.000	-11.700	.000	SREF	2690.0000 SQ.FT.
.000	25.000	-11.700	.000	LREF	474.8000 IN.
-10.000	.000	-11.700	.000	BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

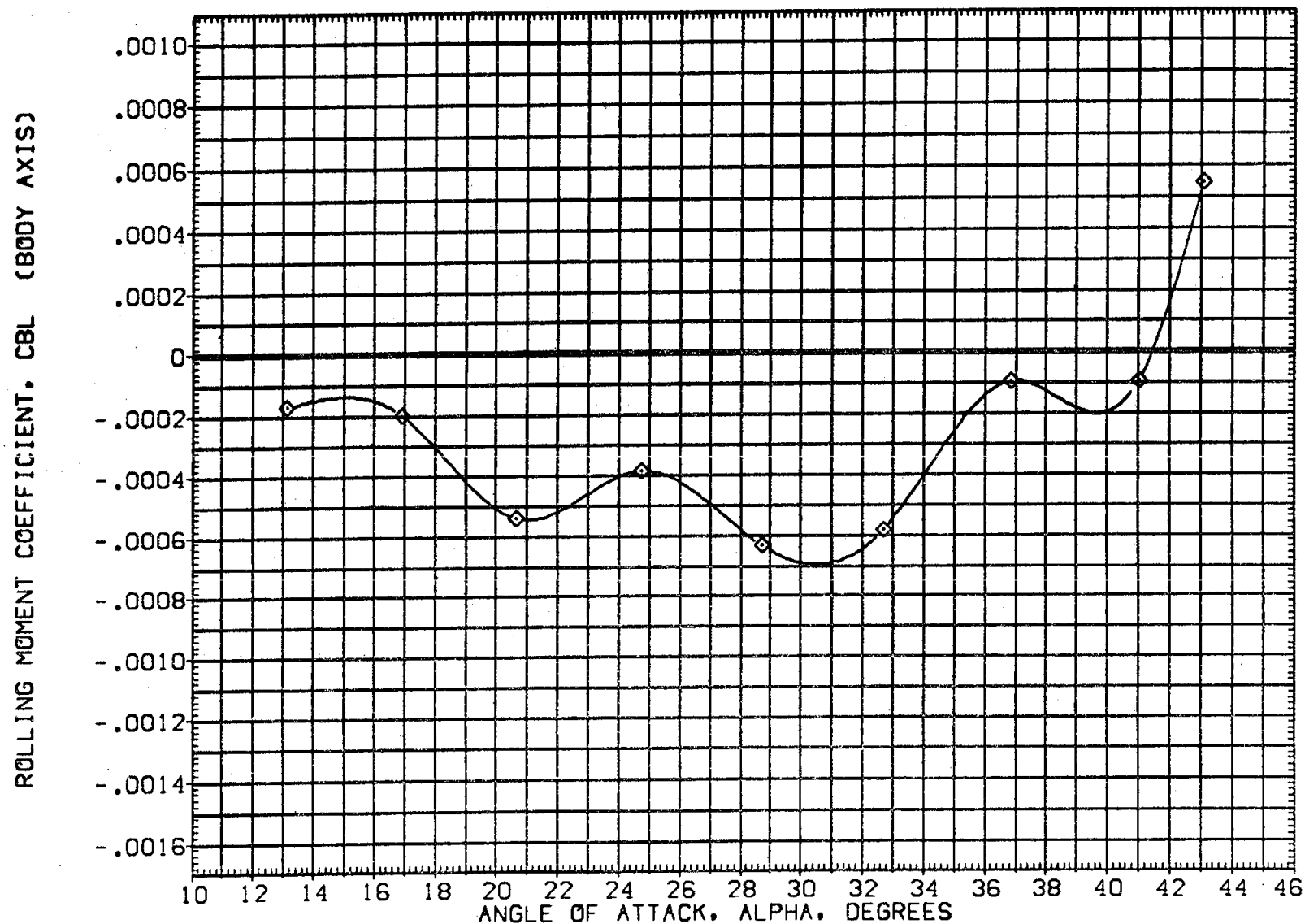


FIG. 12 RUDDER EFFECT, AILRON AND ELEVON ARE ZERO.
(B)MACH = 10.27

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP026) \square	B26 C9 M14 F7 V116 V8 E26 R5
(AEP027) \square	B26 C9 M7 F7 V116 V8 E26 R5

ALPHA	BOFLAP	SPDBRK	ELEVON	REFERENCE INFORMATION	
20.000	-11.700	85.000	-40.000	SREF	2690.0000 SQ.FT.
20.000	-11.700	85.000	-40.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

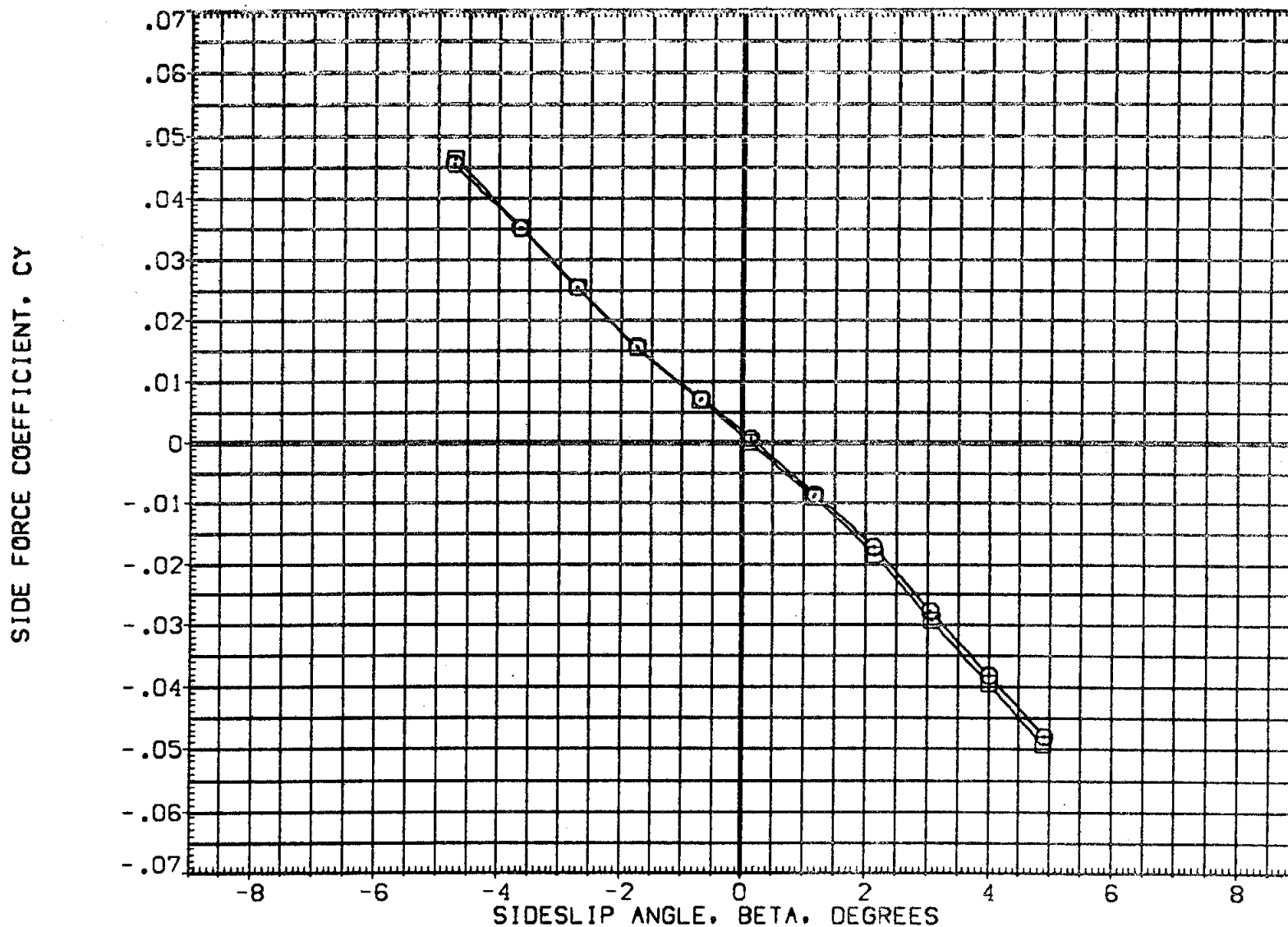


FIG. 13 OMS STUDY, AILRON IS ZERO.

(A)MACH = 5.25



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AEP026)	826 C9 M14 F7 V116 V8 E26 R5
(AEP027)	828 C9 M7 F7 V116 V8 E26 R5

ALPHA	BOFLAP	SPOBRK	ELEVON	REFERENCE INFORMATION	
20.000	-11.700	85.000	-40.000	SREF	2690.0000 SQ.FT.
20.000	-11.700	85.000	-40.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

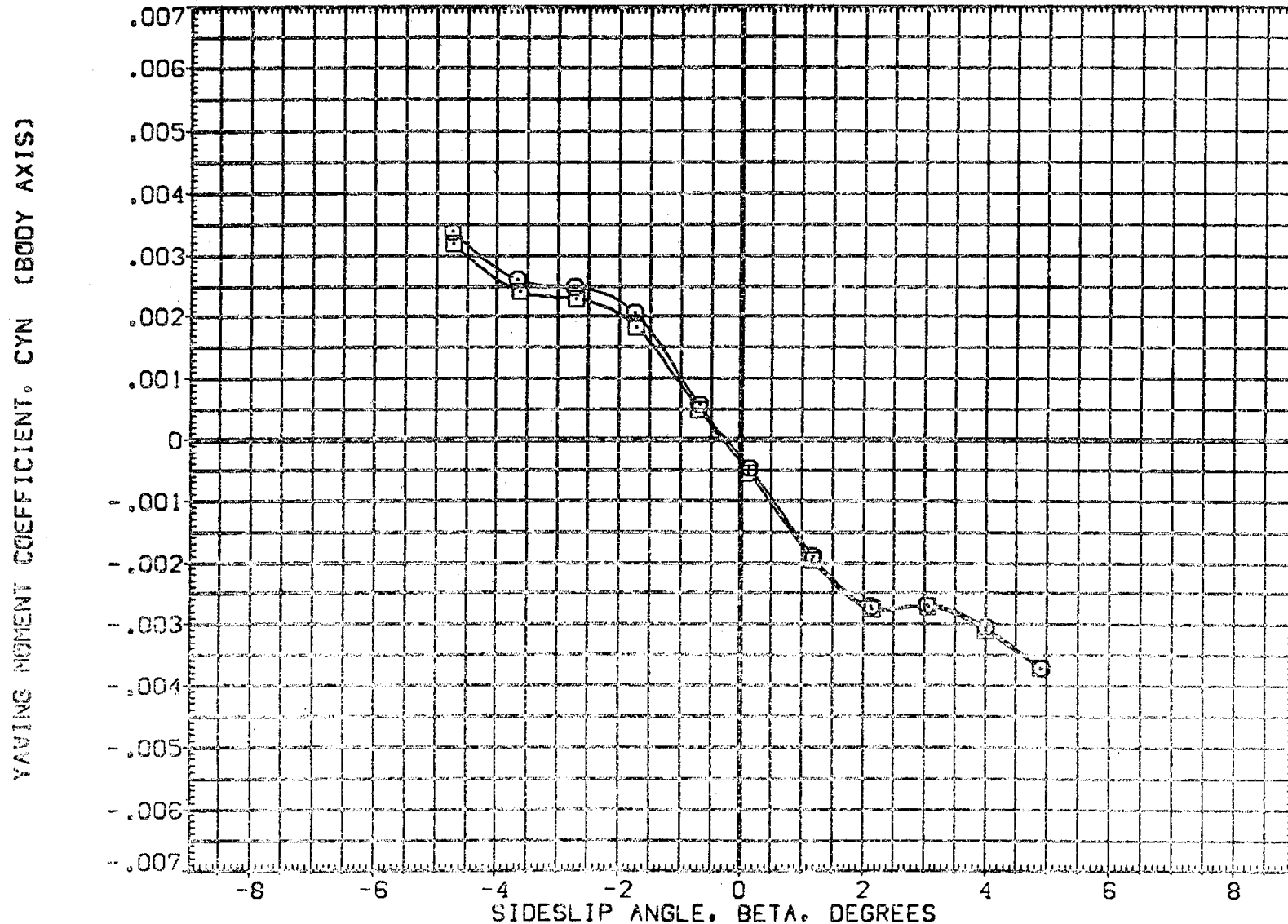


FIG. 13 OMS STUDY, AILRON IS ZERO.

(A)MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[AEP026]	B26 C9 M14 F7 W116 V8 E26 R5
[AEP027]	B26 C9 M7 F7 W116 V8 E26 R5

ALPHA	BOFLAP	SPDBRK	ELEVON	REFERENCE INFORMATION	
20.000	-11.700	85.000	-40.000	SREF	2690.0000 SQ.FT.
20.000	-11.700	85.000	-40.000	LREF	474.8000 IN.
				BREF	936.7000 IN.
				XMRP	1076.7000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0150

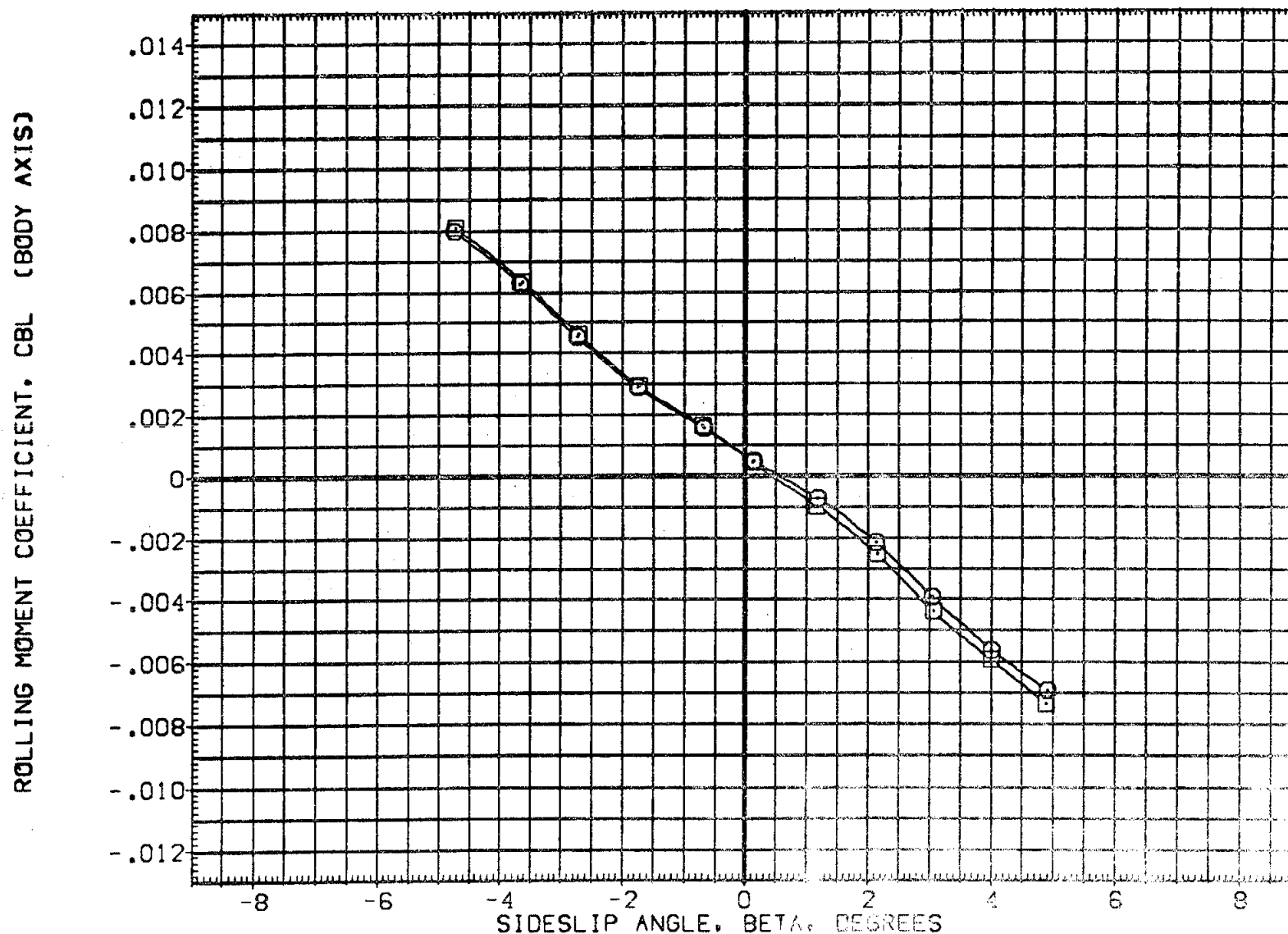


FIG. 13 OMS STUDY, AILERON IS ZERO.

(A)MACH = 5.25

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(HEP026) ○ B26 C9 M14-M7 F7 V116 V8 E26 R5

ALPHA BOFLAP SPDGRK ELEVON
20.000 -11.700 85.000 -40.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8000 IN.
BREF 936.7000 IN.
XMRP 1076.7000 IN.
YMRP .0000 IN.
ZMRP 375.0000 IN.
SCALE .0150

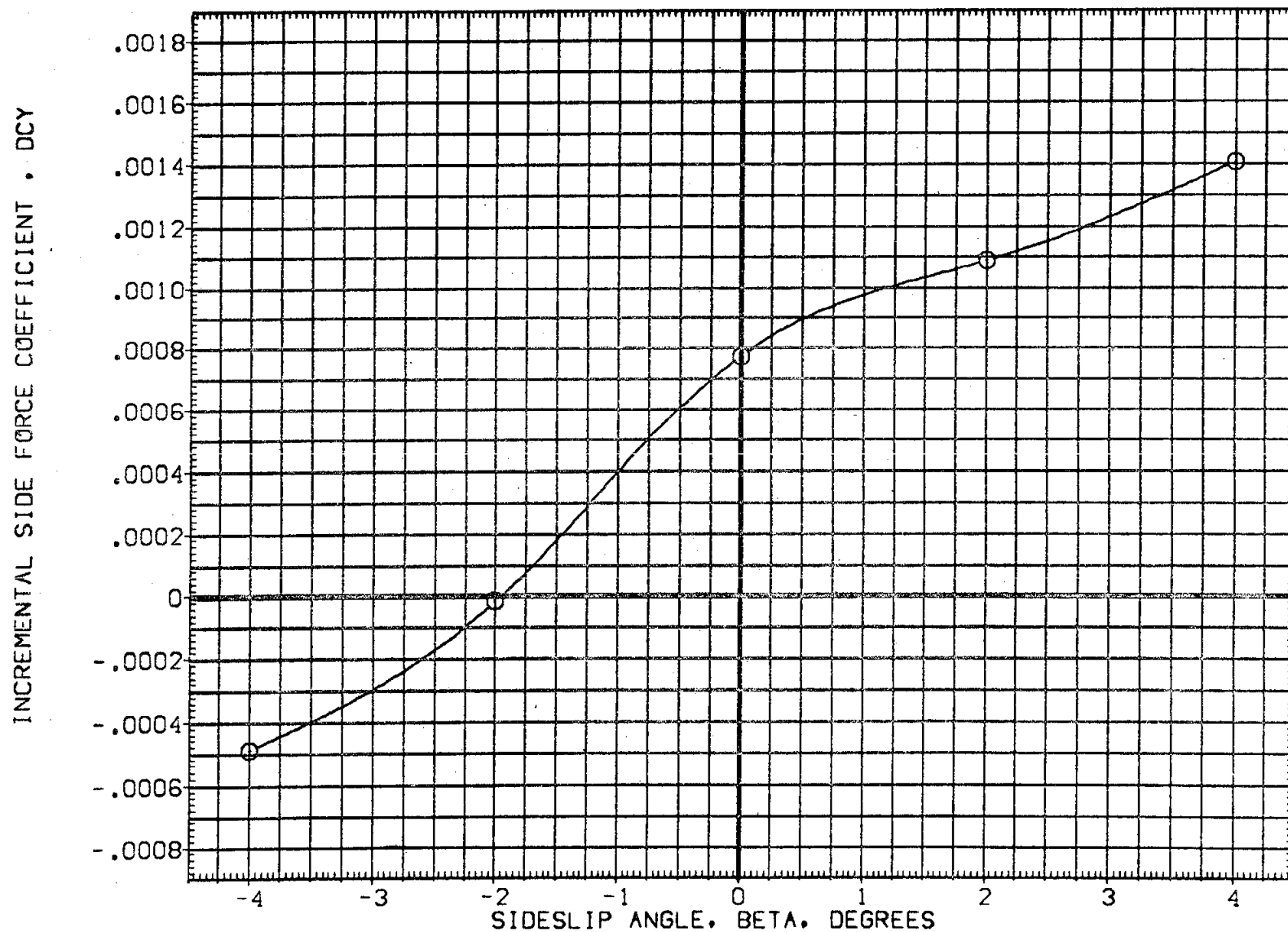


FIG. 13 OMS STUDY, AILRON IS ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (HEP026) ○ B26 C9 M14-M7 F7 W116 V8 E26 R5

ALPHA BOFLAP SPOBRK ELEVON
 20.000 -11.700 85.000 -40.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.7000 IN.
 XMRP 1076.7000 IN.
 YMRP .0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0150

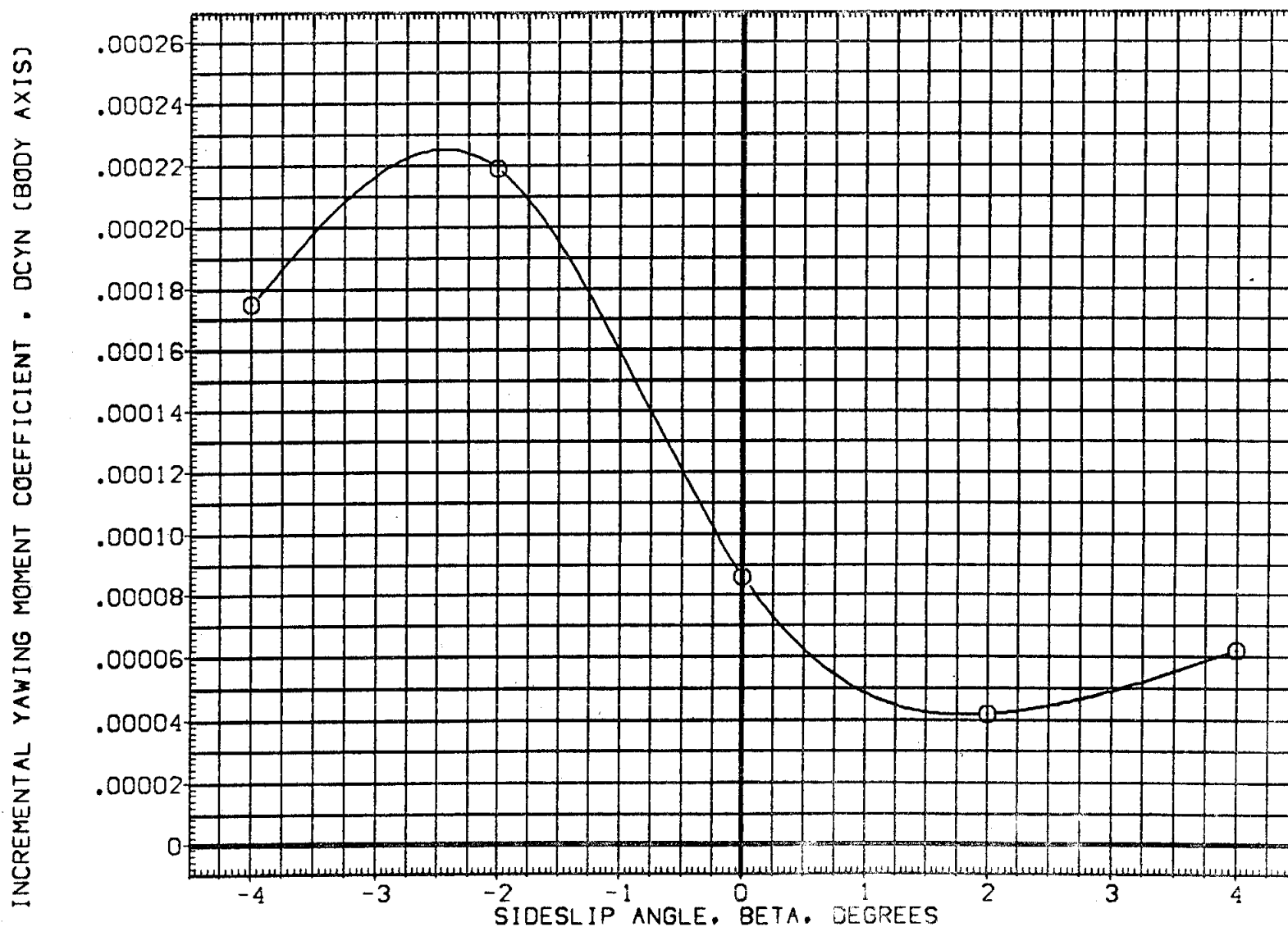


FIG. 13 OMS STUDY, AILRON IS ZERO.

(A)MACH = 5.30

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (HEP026) ○ B26 CS M14-M7 F7 V116 V8 E26 R5

ALPHA BOFLAP SPDBRK ELEVON
 20.000 -11.700 85.000 -40.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.7000 IN.
 XMRP 1076.7000 IN.
 YMRP .0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0150

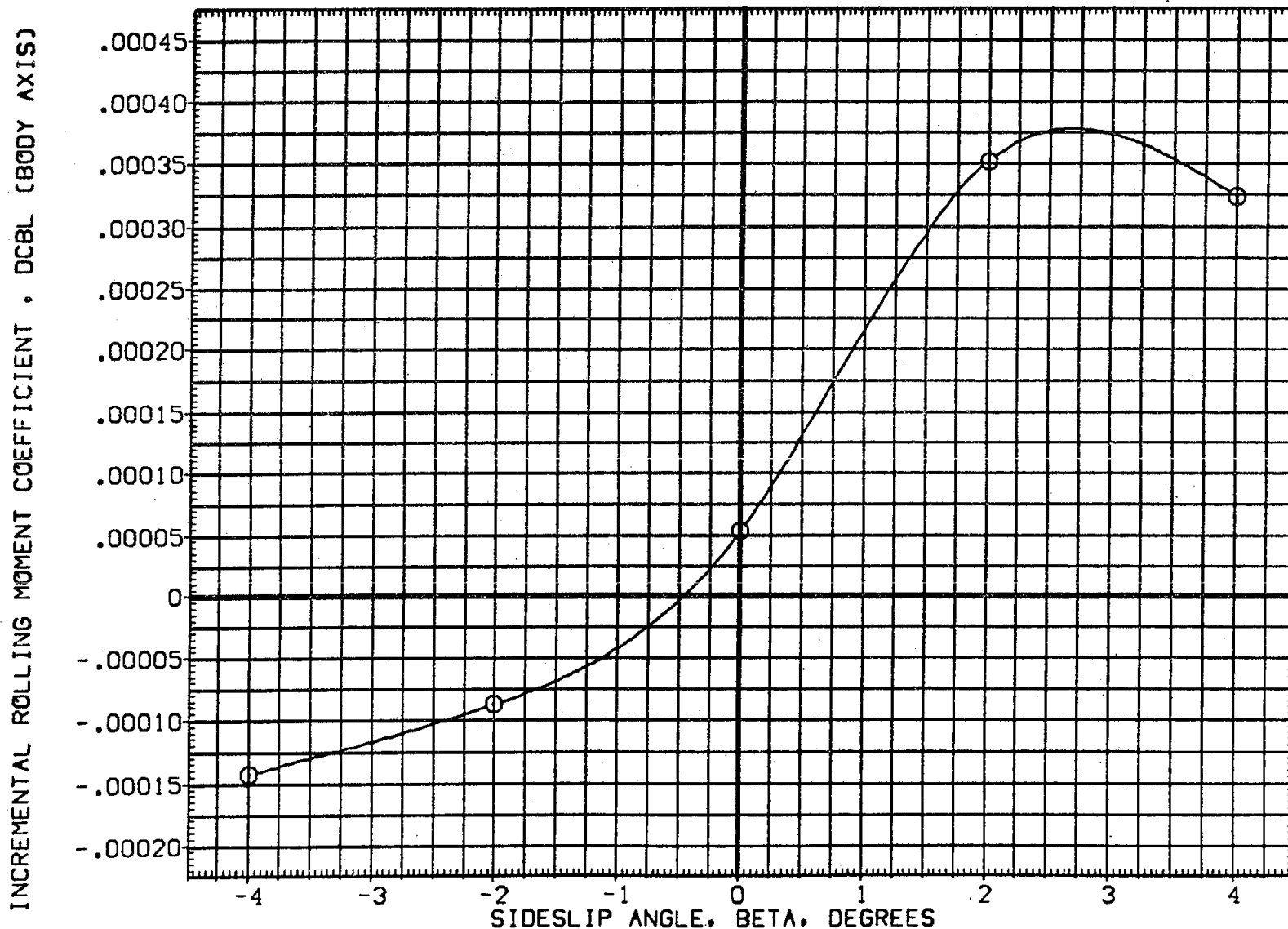


FIG. 13 OMS STUDY, AILRON IS ZERO.

(A)MACH = 5.30

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available on request from
Data Management Services

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TABULATED SOURCE DATA - CASE

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B26 C9 M7 F7 W116 V8 E37 R5

(REPO01) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 20/ 0 RN/L = 1.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPWD	CL	CD	L/D
5.250	-10.166	.46777	.06581	-.00939	.41614	.22354	1.86162
5.250	-8.158	.46940	.06425	-.01036	.41820	.22264	1.87638
5.250	-6.067	.47212	.06314	-.01107	.42114	.22254	1.89242
5.250	-3.974	.47209	.06306	-.01044	.42114	.22246	1.89306
5.250	-1.974	.47234	.06296	-.01072	.42141	.22245	1.89437
5.250	-.102	.47167	.06227	-.01129	.42102	.22157	1.90019
5.250	1.907	.47205	.06262	-.01135	.42126	.22203	1.89732
5.250	3.668	.47087	.06242	-.01177	.42022	.22142	1.89783
5.250	4.821	.47019	.06250	-.01287	.41957	.22125	1.89637
	GRADIENT	-.00020	-.00007	-.00023	-.00017	-.00014	.00040

RUN NO. 19/ 0 RN/L = 1.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPWD	CL	CD	L/D
10.270	-10.202	.39073	.06081	.00415	.34595	.19152	1.80632
10.270	-8.167	.39533	.05965	.00374	.35067	.19203	1.82610
10.270	-6.054	.39979	.05803	.00208	.35542	.19205	1.85064
10.270	-3.875	.40001	.05718	.00234	.35591	.19132	1.86025
10.270	-1.878	.40121	.05660	.00181	.35724	.19119	1.86848
10.270	-.072	.40136	.05631	.00299	.35747	.19098	1.87182
10.270	1.981	.40278	.05680	.00230	.35863	.19193	1.86859
10.270	3.961	.40044	.05718	.00387	.35631	.19148	1.86083
10.270	4.938	.39925	.05736	.00161	.35514	.19122	1.85720
	GRADIENT	-.00005	.00005	.00004	-.00007	.00002	-.00059

020 C0 M7 P7 W110 V0 E37 R3

(REPOB) (13 SEP 74)

REFERENCE DATA

BREF = 2000.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 85.000 RUDDER = .000
 ELEVON = .000 ATLCON = .000

RUN NO. 21/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWD	CL	CD	L/D
5.250	-10.150	.46415	.06961	-.00676	.41141	.22500	1.62131
5.250	-8.137	.46678	.06755	-.00855	.41459	.22465	1.64365
5.250	-6.056	.46985	.06694	-.00873	.41767	.22536	1.65335
5.250	-3.926	.47105	.06754	-.00738	.41866	.22616	1.65115
5.250	-1.930	.47250	.06849	-.00655	.41961	.22776	1.64236
5.250	-.100	.47327	.06806	-.00659	.42048	.22762	1.64729
5.250	1.914	.47198	.06738	-.00525	.41930	.22655	1.65168
5.250	3.850	.47238	.06716	-.00609	.41996	.22647	1.65433
5.250	4.803	.47184	.06704	-.00644	.41930	.22616	1.65467
	GRADIENT	.00004	-.00009	.00013	.00007	-.00007	.00092

RUN NO. 18/ 0 RN/L = 1.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMFWD	CL	CD	L/D
10.270	-10.150	.36709	.06357	.00796	.34150	.19200	1.77096
10.270	-8.156	.39139	.06064	.00664	.34655	.19179	1.80694
10.270	-6.092	.39509	.05888	.00533	.35070	.19123	1.83397
10.270	-3.865	.39740	.05722	.00376	.35343	.19047	1.85570
10.270	-1.951	.39968	.05713	.00297	.35561	.19118	1.86002
10.270	-.037	.39838	.05652	.00366	.35460	.19015	1.86489
10.270	2.013	.40021	.05664	.00260	.35622	.19107	1.86433
10.270	3.869	.39510	.05727	.00361	.35127	.18972	1.85156
10.270	4.870	.39875	.05821	.00497	.35250	.19118	1.84363
	GRADIENT	-.00023	.00008	.00009	-.00025	-.00001	-.00122

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TABULATED SOURCE DATA - 0A36

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B26 C8 M7 F7 W116 Y8 E37 R5

(REPO03) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 PREF = 836.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 30.000 ELEV-L = .000
 ELEV-R = .000 BDPLAP = -11.700
 SPDBRK = 65.000 RUDDER = .000
 ELEVON = .000 ATLON = .000

RUN NO. 22/ 0 RN/L = 1.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPW0	CL	CD	L/D
5.250	-10.592	.86622	.06712	-.01840	.71282	.49672	1.43504
5.250	-8.684	.86981	.06627	-.01838	.71632	.49783	1.43888
5.250	-6.542	.87327	.06507	-.01847	.71991	.49857	1.44395
5.250	-4.610	.87641	.06460	-.01856	.72284	.49977	1.44634
5.250	-2.456	.87855	.06414	-.01828	.72491	.50048	1.44844
5.250	-.497	.87900	.06349	-.01941	.72564	.50012	1.45092
5.250	1.551	.88260	.06469	-.02076	.72814	.50296	1.44770
5.250	4.423	.88795	.06602	-.02259	.73207	.50684	1.44438
	GRADIENT	.00125	.00016	-.00048	.00100	.00077	-.00025

RUN NO. 17/ 0 RN/L = 1.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPW0	CL	CD	L/D
10.270	-10.152	.77054	.06314	-.00350	.63393	.44255	1.43247
10.270	-8.119	.77370	.06204	-.00224	.63720	.44321	1.43770
10.270	-6.058	.77923	.06198	.00129	.64198	.44599	1.43943
10.270	-3.934	.78635	.06145	.00235	.64637	.44915	1.44358
10.270	-2.014	.79378	.06084	.00019	.65309	.45258	1.44811
10.270	-.095	.78757	.05968	-.00312	.65034	.44819	1.45102
10.270	1.915	.79237	.06043	-.00241	.65410	.45127	1.44948
10.270	3.870	.79048	.06101	-.00144	.65218	.45083	1.44663
10.270	4.685	.78791	.06152	-.00283	.64971	.44995	1.44395
	GRADIENT	.00007	.00002	-.00048	.00006	.00005	-.00002

826 C9 M7 F7 W116 V8 E37 R5

(REPOB4) (13 SEP 74)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 938.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 30.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 ATLON = .000

RUN NO. 25/ 0 RN/L = 1.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPW0	CL	CD	L/D
5.250	-10.597	.86804	.06352	-.02088	.71323	.48622	1.44138
5.250	-8.869	.87049	.06459	-.02123	.71781	.48666	1.44326
5.250	-6.823	.87386	.06386	-.02094	.72106	.49777	1.44856
5.250	-4.608	.87608	.06531	-.02241	.72225	.50014	1.44411
5.250	-2.442	.87757	.06425	-.02215	.72406	.49999	1.44816
5.250	-.489	.87570	.06257	-.02164	.72330	.49759	1.45363
5.250	1.561	.87643	.06347	-.02181	.72348	.49873	1.45064
5.250	4.454	.87895	.06324	-.02309	.72407	.49876	1.45173
	GRADIENT	.00003	-.00021	-.00006	.00014	-.00017	.00077

RUN NO. 16/ 0 RN/L = 1.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPW0	CL	CD	L/D
10.270	-10.147	.77061	.06219	-.00401	.63448	.44175	1.43631
10.270	-8.122	.77411	.06124	-.00274	.63797	.44271	1.44105
10.270	-6.074	.78055	.06075	-.00124	.64375	.44357	1.44480
10.270	-3.903	.78804	.05997	-.00461	.64890	.44765	1.44959
10.270	-1.958	.79240	.05983	-.00551	.65445	.45074	1.45195
10.270	-.094	.78636	.05930	-.00463	.64951	.44723	1.45231
10.270	1.902	.78992	.05953	-.00293	.65245	.44924	1.45233
10.270	3.874	.78618	.05955	-.00340	.64922	.44736	1.45124
10.270	4.880	.79105	.06061	-.00162	.65288	.45076	1.44841
	GRADIENT	.00013	.00003	.00035	.00009	.00010	-.00009

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TABULATED SOURCE DATA - 0436

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B26 C9 M7 F7 W116 V8 E37 R5

(REPODS) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = 9.000 ELEV-L = .000
 ELEV-R = .000 SDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 24/ 0 RN/L = 1.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPW	CL	CD	L/D
5.250	12.651	.21101	.06870	-.01281	.19045	.11391	1.67196
5.250	16.830	.32782	.06604	-.01374	.29465	.15813	1.66337
5.250	20.654	.45616	.06479	-.01529	.40399	.22153	1.62366
5.250	24.836	.61171	.06415	-.01855	.52818	.31517	1.67586
5.250	28.881	.77422	.06456	-.02375	.64674	.43047	1.50242
5.250	32.872	.94216	.06440	-.03210	.75635	.56546	1.33758
5.250	37.120	1.12448	.06458	-.04135	.85766	.73010	1.17471
5.250	41.288	1.30387	.06327	-.05162	.93799	.90789	1.03315
5.250	43.284	1.38582	.06154	-.05760	.96664	.99493	.97157
	GRADIENT	.03935	-.00015	-.00151	.02620	.02973	-.02932

RUN NO. 15/ 0 RN/L = 1.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPW	CL	CD	L/D
10.270	12.776	.15801	.05853	-.00228	.14115	.09202	1.53394
10.270	16.596	.26289	.05806	.00127	.23536	.13073	1.80038
10.270	20.394	.38181	.05691	.00294	.33735	.18826	1.79190
10.270	24.478	.52755	.06022	.00297	.45518	.27339	1.66493
10.270	28.458	.67668	.06181	-.00110	.56546	.37680	1.50072
10.270	32.394	.83395	.06197	-.00713	.67096	.49910	1.34436
10.270	36.380	1.01301	.06227	-.01331	.77636	.65371	1.18763
10.270	40.738	1.18208	.06128	-.02906	.85567	.81785	1.04624
10.270	42.795	1.27370	.05975	-.03280	.89404	.90917	.98336
	GRADIENT	.03773	.00010	-.00109	.02567	.02779	-.02574

B26 C9 M7 F7 W116 V8 E37 R5

(REP006) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = 5.000 ELEV-L = .000
 ELEV-R = .000 BDPLAP = -11.700
 SPDBRK = 65.000 RUDDER = .000
 ELEVON = .000 ATLON = .000

RUN NO. 25/ 0 RM/L = 1.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPLO	CL	CD	L/D
5.250	16.666	.32091	.07257	-.00365	.28656	.16165	1.77266
5.250	16.429	.36065	.07107	-.00416	.33665	.16762	1.60406
5.250	20.596	.45373	.06913	-.00797	.40041	.22434	1.78481
5.250	24.665	.61678	.06756	-.01207	.53106	.32065	1.65524
5.250	28.913	.77672	.06695	-.01494	.64929	.43510	1.49229
5.250	32.920	.94923	.06496	-.02425	.76150	.57043	1.33496
5.250	37.163	1.13607	.06415	-.03562	.86661	.73740	1.17522
5.250	41.344	1.31890	.06155	-.04870	.94952	.91744	1.03496
5.250	43.350	1.40379	.06045	-.05491	.97930	1.00760	.97192
	GRADIENT	.04093	-.00041	-.00167	.02660	.03184	-.03297

B26 C9 M7 F7 W116 V8 E37 R5

(REP007) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDPLAP = -11.700
 SPDBRK = 65.000 RUDDER = .000
 ELEVON = -40.000 ATLON = .000

RUN NO. 26/ 0 RM/L = 1.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPLO	CL	CD	L/D
5.254	12.916	.16676	.06902	.02686	.14459	.12449	1.16149
5.254	16.857	.26656	.07964	.02292	.25301	.16009	1.56046
5.254	20.732	.41711	.07473	.02237	.36364	.21755	1.67157
5.254	24.941	.56656	.07196	.02435	.46520	.30503	1.59070
5.254	28.946	.72211	.07060	.02605	.59763	.41145	1.43252
5.254	33.002	.88264	.07004	.02773	.70206	.53946	1.30140
5.254	37.259	1.05566	.06761	.02676	.79945	.69307	1.15349
5.254	41.425	1.22366	.06517	.02525	.87442	.85850	1.01855
5.254	43.366	1.30065	.06426	.02434	.90120	.94032	.95839
	GRADIENT	.03769	-.00067	.00004	.02532	.02755	-.01604

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B26 C9 M7 F7 W116 V8 E37 R5

(REPO07) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDGRK = 85.000 RUDDER = .000
 ELEVON = -40.000 AILRON = .000

RUN NO. 1/ 0 RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
10.270	13.103	.14315	.06636	.01401	.12628	.09774	1.29203
10.270	16.922	.25146	.06380	.01941	.22200	.13423	1.65390
10.270	20.701	.36593	.06368	.02533	.31981	.18692	1.69282
10.270	24.802	.50402	.06483	.03069	.43033	.27029	1.59211
10.270	28.803	.65403	.06710	.03674	.54061	.37392	1.44633
10.270	32.718	.80363	.06868	.04064	.63901	.49214	1.29841
10.270	36.869	.96175	.06928	.04474	.72784	.63245	1.15083
10.270	41.098	1.12466	.06722	.03764	.80334	.78996	1.01693
10.270	43.123	1.20364	.06691	.04231	.83279	.87161	.95546
	GRADIENT	.03582	.00012	.00093	.02407	.02644	-.01988

B26 C9 M7 F7 W116 V8 E37 R5

(REPO08) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDGRK = 85.000 RUDDER = .000
 ELEVON = -40.000 AILRON = .000

RUN NO. 27/ 0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
5.255	12.749	.17166	.07761	.01264	.15030	.11358	1.32334
5.255	16.809	.29228	.07187	.01313	.23901	.15332	1.68931
5.255	20.658	.41644	.06906	.01539	.36330	.21133	1.72689
5.255	24.863	.56398	.06823	.01961	.48473	.30003	1.61533
5.255	28.917	.71863	.06765	.02313	.59634	.40671	1.46627
5.255	32.926	.87629	.06774	.02493	.69671	.53317	1.31048
5.255	37.115	1.04431	.06625	.02491	.79295	.68310	1.16081
5.255	41.363	1.21399	.06390	.02294	.86862	.85050	1.02131
5.255	43.370	1.29193	.06250	.02283	.89624	.93263	.96098
	GRADIENT	.03714	-.00038	.00040	.02486	.02749	-.02050

B26 C9 M7 F7 W116 V8 E37 R5

(REP008) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = -40.000 ATLCON = .000

RUN NO. 2/ 0 RW/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPW0	CL	CD	L/D
10.270	13.121	.14553	.06207	.00973	.12764	.09346	1.36533
10.270	16.902	.24705	.09573	.01320	.21901	.12899	1.69779
10.270	20.678	.35500	.08062	.02241	.31672	.18208	1.70653
10.270	24.795	.49516	.06209	.02937	.42350	.26403	1.60400
10.270	28.790	.63496	.06382	.03426	.52574	.36173	1.43342
10.270	32.706	.78234	.06134	.03867	.62290	.47766	1.30351
10.270	36.890	.93890	.06006	.03986	.71126	.61643	1.19580
10.270	41.139	1.10603	.06569	.04392	.78961	.77727	1.01566
10.270	43.097	1.17860	.06435	.03869	.81665	.85224	.95824
	GRADIENT	.03503	.00018	.00107	.02352	.02596	-.02181

B26 C9 M7 F7 W116 V8 E37 R5

(REP009) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = -10.000
 ELEVON = .000 ATLCON = .000

RUN NO. 28/ 0 RW/L = 1.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPW0	CL	CD	L/D
5.255	12.996	.22257	.07007	-.00050	.20130	.11642	1.70162
5.255	16.806	.34576	.06790	-.00146	.30870	.16553	1.69367
5.255	20.601	.47739	.06577	-.01367	.42372	.22954	1.64594
5.255	24.777	.64173	.06643	-.01640	.55461	.32926	1.68494
5.255	28.810	.80915	.06594	-.02416	.67722	.44771	1.51282
5.255	32.827	.96182	.06435	-.03138	.79015	.56853	1.34762
5.254	36.956	1.16429	.06277	-.04306	.89262	.75016	1.16991
5.254	41.263	1.35032	.06205	-.05331	.97407	.93724	1.03929
5.254	43.288	1.43734	.06127	-.06222	1.06459	1.05026	.97466
	GRADIENT	.04073	-.00025	-.00177	.02716	.03061	-.03028

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B26 C9 M7 F7 W116 V8 E37 R5

(REPO09) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDRK = 85.000 RUDDER = -10.000
 ELEVON = .000 ATLCON = .000

RUN NO. S/ D RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPW0	CL	CD	L/D
10.270	13.092	.18592	.05826	-.00216	.14841	.09433	1.57329
10.270	16.879	.27389	.05766	.00234	.24533	.13471	1.82139
10.270	20.686	.39287	.05856	.00493	.34683	.19356	1.79191
10.270	24.809	.54793	.06079	.00393	.47188	.28510	1.65513
10.270	29.732	.69821	.06156	.00127	.58266	.38962	1.49546
10.270	32.680	.86101	.06249	-.00719	.69097	.51749	1.33523
10.270	36.822	1.04177	.06316	-.01503	.79609	.67492	1.17952
10.270	41.070	1.21096	.06159	-.02187	.87248	.84201	1.03618
10.270	43.094	1.30382	.06065	-.02650	.91213	.93641	.97407
	GRADIENT	.03837	.00014	-.00093	.02603	.02863	-.02706

B26 C9 M7 F7 W116 V8 E37 R5

(REPO10) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDRK = 85.000 RUDDER = -10.000
 ELEVON = .000 ATLCON = .000

RUN NO. S/ D RN/L = 1.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPW0	CL	CD	L/D
5.254	13.059	.22175	.07963	.00386	.19802	.12770	1.55072
5.254	16.804	.34564	.07353	-.00170	.30963	.17032	1.81791
5.254	20.622	.48217	.07019	-.00643	.42655	.23551	1.81122
5.254	24.818	.64766	.06832	-.01198	.55917	.33383	1.67488
5.254	28.813	.81684	.06836	-.02031	.68276	.45338	1.50529
5.254	32.830	.99782	.06727	-.02988	.80198	.59750	1.34223
5.254	36.998	1.18376	.06519	-.04132	.90619	.76443	1.18544
5.254	41.198	1.37369	.06324	-.05678	.99197	.95237	1.04158
5.254	43.312	1.46617	.06216	-.06456	1.02418	1.05098	.97449
	GRADIENT	.04176	-.00048	-.00227	.02795	.03123	-.02649

828 C9 M7 F7 W116 V8 E37 R3

(REP010) (13 SEP 74)

REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0130

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BOFLAP = -11.700
 SPDBRK = 85.000 RUDDER = -10.000
 ELEVON = .000 ATLON = .000

RUN NO. 7/ 0 RN/L = 1.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CL	CD	L/D
10.270	13.060	.16011	.06137	.00137	.14207	.09601	1.47966
10.270	16.905	.26882	.05908	.00294	.24003	.13468	1.78229
10.270	20.676	.36861	.05676	.00319	.34096	.19140	1.78069
10.270	24.793	.53773	.06029	.00309	.46290	.28024	1.65163
10.270	28.755	.69395	.06230	.00094	.57641	.38846	1.48900
10.270	32.715	.85531	.06354	-.00331	.68546	.51563	1.32686
10.270	36.858	1.02861	.06285	-.01468	.78548	.66740	1.17692
10.270	41.121	1.20378	.06110	-.02660	.86817	.83901	1.03473
10.270	43.127	1.29362	.05985	-.03194	.90322	.92892	.97326
	GRADIENT	.03636	.00005	-.00113	.02595	.02636	-.02468

828 C9 M7 F7 W116 V8 E37 R3

(REP011) (13 SEP 74)

REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0130

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BOFLAP = -11.700
 SPDBRK = 85.000 RUDDER = .000
 ELEVON = .000 ATLON = .000

RUN NO. 30/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CL	CD	L/D
5.254	12.994	.21728	.07638	.00471	.19433	.12328	1.37804
5.254	16.801	.34036	.07189	-.00185	.30530	.16708	1.62734
5.254	20.606	.47568	.06930	-.00610	.42078	.23247	1.61008
5.254	24.798	.63791	.06647	-.00954	.53037	.32971	1.66925
5.254	28.791	.80288	.06719	-.01638	.67127	.44538	1.59657
5.254	32.803	.97823	.06604	-.02303	.78647	.58546	1.34334
5.254	36.972	1.16294	.06616	-.03437	.88932	.75227	1.18218
5.254	41.202	1.34838	.06191	-.04787	.97388	.93492	1.04167
5.254	43.274	1.43939	.06080	-.05330	1.00560	1.03026	.97606
	GRADIENT	.04093	-.00043	-.00187	.02738	.03067	-.02701

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(REP011) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDRK = 85.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 6/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
10.270	13.063	.16230	.05991	.00080	.14475	.09509	1.52222
10.270	16.863	.27033	.05849	.00340	.24169	.13448	1.79721
10.270	20.654	.36811	.05861	.00445	.34249	.19173	1.78629
10.270	24.796	.53933	.06004	.00277	.46443	.26069	1.65462
10.270	28.745	.69397	.06178	.00086	.57874	.38791	1.49195
10.270	32.727	.86167	.06314	-.00311	.69075	.51896	1.33102
10.270	36.666	1.03509	.06309	-.01277	.79026	.67148	1.17689
10.270	41.082	1.21565	.06169	-.02492	.87594	.84548	1.03803
10.270	43.134	1.29534	.06022	-.02886	.90411	.92957	.97261
	GRADIENT	.03651	.00010	-.00103	.02604	.02853	-.02563

B26 C9 M7 F7 W116 V8 E37 R5

(REP012) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 31/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
5.254	12.954	.21860	.06641	-.00920	.19815	.11373	1.74229
5.254	16.779	.33867	.06470	-.01118	.30557	.15971	1.91332
5.254	20.604	.47154	.06486	-.01244	.41655	.22665	1.84665
5.254	24.794	.63270	.06669	-.01394	.54641	.32587	1.67675
5.254	28.802	.79559	.06645	-.01791	.66515	.44154	1.50645
5.254	32.795	.96533	.06525	-.02411	.77613	.57771	1.34346
5.254	37.007	1.14931	.06413	-.03368	.87920	.74299	1.16333
5.254	41.261	1.33365	.06244	-.04496	.96134	.92647	1.03764
5.254	43.306	1.42310	.06107	-.04956	.99371	1.02053	.97372
	GRADIENT	.04026	-.00013	-.00133	.02679	.03053	-.03126

B26 C9 M7 F7 W116 V8 E37 R5

(REP012) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 3/ 0 RN/L = 1.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPW0	CL	CD	L/D
10.270	13.096	.16710	.03618	-.00396	.14937	.09453	1.38222
10.270	16.924	.27531	.05786	.00035	.24654	.13550	1.61951
10.270	20.669	.39469	.05909	.00344	.34862	.19467	1.79065
10.270	24.616	.54864	.06054	.00305	.47256	.28522	1.65681
10.270	28.774	.69682	.06154	.00002	.58291	.39032	1.49339
10.270	32.671	.86531	.06284	-.00852	.69448	.52000	1.33553
10.270	36.880	1.04449	.06263	-.01605	.79789	.67694	1.17867
10.270	41.081	1.21663	.06108	-.02753	.87694	.84531	1.03716
10.270	43.079	1.29495	.05985	-.03331	.90496	.92818	.97499
	GRADIENT	.03646	.00011	-.00109	.02596	.02657	-.02717

B26 C9 M7 F7 W116 V8 E37 R5

(REP013) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0130

PARAMETRIC DATA

BETA = .000 ELEV-L = 15.000
 ELEV-R = 15.000 BDFLAP = 16.300
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = 15.000 AILRON = .000

RUN NO. 32/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPW0	CL	CD	L/D
5.254	12.691	.27303	.07891	-.03705	.24832	.13881	1.76895
5.254	16.733	.40844	.08365	-.07864	.36706	.19771	1.65634
5.254	20.486	.53585	.08996	-.09447	.48921	.27680	1.75468
5.254	24.667	.73161	.09753	-.11548	.62415	.39396	1.58428
5.254	28.695	.91235	.10475	-.13751	.75001	.52993	1.41330
5.254	32.667	1.09736	.11229	-.15909	.86319	.68686	1.25672
5.254	36.848	1.29425	.11856	-.18297	.98459	.87103	1.10742
5.254	41.122	1.48906	.12297	-.20676	1.04065	1.07194	.97100
5.254	43.133	1.58068	.12491	-.21853	1.06827	1.17199	.91150
	GRADIENT	.04392	.00158	-.00535	.02770	.03499	-.03320

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TABULATED SOURCE DATA - 0A36

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B26 C9 M7 F7 W116 V8 E37 R5

(REPO13) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = 15.000
 ELEV-R = 15.000 BDFLAP = 16.300
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = 15.000 ATLCON = .000

RUN NO. 10/ 0 RN/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
10.270	13.036	.20455	.06543	-.03866	.16452	.10988	1.67922
10.270	16.831	.33074	.06955	-.05195	.29643	.16234	1.82599
10.270	20.605	.47513	.07690	-.06976	.41767	.23919	1.74617
10.270	24.708	.64110	.08520	-.09263	.54680	.34537	1.58322
10.270	28.696	.81336	.09390	-.11524	.66838	.47291	1.41333
10.270	32.657	.99412	.10255	-.13566	.78162	.62278	1.25506
10.270	36.771	1.16898	.11028	-.15570	.87038	.78812	1.10437
10.270	40.954	1.34943	.11479	-.17728	.94391	.97118	.97192
10.270	42.869	1.80378	.12495	-.46530	1.23701	1.31873	.93803
	GRADIENT	.04775	.00197	-.00953	.03115	.03681	-.03083

B26 C9 M7 F7 W116 V8 E37 R5

(REPO14) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = 16.300
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 ATLCON = .000

RUN NO. 34/ 0 RN/L = 1.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
5.255	12.633	.23955	.07083	-.02358	.21783	.12227	1.78159
5.255	16.594	.36460	.07083	-.03200	.32918	.17200	1.91381
5.255	20.435	.50851	.07278	-.03893	.45110	.24575	1.83561
5.255	24.601	.67799	.07508	-.04733	.58520	.35051	1.66954
5.255	28.637	.85462	.07557	-.05870	.71366	.47590	1.50002
5.255	32.652	1.03760	.07839	-.07482	.83133	.62582	1.32839
5.255	36.820	1.23190	.08021	-.09401	.93810	.80248	1.16900
5.254	41.039	1.42918	.08154	-.11684	1.02444	.99986	1.02458
5.255	43.075	1.51728	.08101	-.12671	1.05299	1.09541	.96127
	GRADIENT	.04299	.00039	-.00341	.02833	.03295	-.03246

B26 C9 M7 F7 M18 V6 E37 R3

(REPO19) (15 SEP 74)

REFERENCE DATA

XREF = 2000.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = 10.000
 ELEV-R = -10.000 BDCLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEVON = .000 ATLRCN = 10.000

RUN NO. 36/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
5.254	18.114	.22580	.08920	-.01355	.20362	.11848	1.71848
5.254	18.901	.34583	.08793	-.01598	.31098	.16548	1.87923
5.254	20.665	.48071	.08918	-.01782	.42538	.23436	1.81508
5.254	24.878	.64317	.07018	-.02042	.55396	.33423	1.65733
5.254	28.959	.80833	.07143	-.02311	.67263	.45397	1.48216
5.254	32.914	.97647	.07071	-.03447	.78132	.58993	1.32437
5.254	37.185	1.16311	.06941	-.04803	.88469	.75827	1.16672
5.254	41.398	1.34935	.06918	-.05630	.96644	.94420	1.02355
5.254	45.415	1.43827	.06736	-.05955	.99646	1.03745	.96244
	GRADIENT	.04054	-.00001	-.00159	.02674	.03096	-.03067

RUN NO. 13/ 0 RN/L = 1.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
10.270	13.038	.16969	.05843	-.00761	.13210	.09523	1.59678
10.270	16.855	.27839	.05893	-.00447	.24934	.13712	1.81847
10.270	20.674	.39795	.06043	-.00305	.35099	.19704	1.78133
10.270	24.773	.53111	.06265	-.01123	.47414	.28781	1.64739
10.270	28.807	.71289	.06536	-.01250	.59317	.40079	1.48001
10.270	32.738	.86322	.06739	-.01432	.69135	.52457	1.31785
10.270	36.875	1.04814	.06874	-.02586	.78721	.66394	1.16582
10.270	41.114	1.22949	.06923	-.03737	.86142	.83988	1.02505
10.270	45.159	1.50404	.06718	-.03927	.90531	.94098	.98209
	GRADIENT	.03855	.00036	-.00117	.02583	.02889	-.02775

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TABULATED SOURCE DATA - Q436

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B26 C8 M7 F7 W116 V8 E37 R5

(REPO10) (13 SEP 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 SREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = .000
 SPDGRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 37/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
5.254	13.114	.22203	.06886	-.01299	.20109	.11350	1.74113
5.254	16.872	.34088	.06501	-.01725	.30733	.16113	1.90713
5.254	20.724	.47463	.06393	-.02061	.42060	.22964	1.83156
5.254	24.916	.63243	.06648	-.02196	.54358	.32673	1.66982
5.254	28.888	.79795	.06656	-.02762	.66650	.44377	1.50191
5.254	32.877	.96921	.06403	-.03663	.77922	.57991	1.34371
5.254	37.078	1.15623	.06443	-.04973	.88361	.74850	1.18050
5.254	41.297	1.33963	.06254	-.06457	.96321	.93110	1.03663
5.254	43.766	1.44712	.06041	-.07388	1.00328	1.04462	.96043
	GRADIENT	.04056	-.00016	-.00193	.02663	.03088	-.03117

RUN NO. 9/ 0 RN/L = 1.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
10.270	13.056	.16789	.05789	-.00482	.15047	.09432	1.59527
10.270	16.863	.27310	.05742	-.00244	.24662	.13476	1.83009
10.270	20.683	.39803	.05868	-.00213	.35163	.19550	1.79875
10.270	24.803	.54396	.05973	-.00320	.46872	.28243	1.65960
10.270	28.736	.69721	.06093	-.00974	.58203	.38862	1.49772
10.270	32.714	.86420	.06198	-.01490	.69363	.51920	1.33593
10.270	36.866	1.03983	.06196	-.03063	.79475	.67343	1.18013
10.270	41.023	1.22083	.06003	-.05487	.88130	.84648	1.04137
10.270	43.131	1.30586	.06076	-.04537	.91148	.93711	.97263
	GRADIENT	.03857	.00012	-.00167	.02603	.02867	-.02733

B26 C9 N7 F7 W156 V8 E37 R5

(REP017) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDPLAP = -11.700
 SPDGRK = 25.000 RUDDER = -10.000
 ELEVON = .000 ATLON = .000

RUN NO. 38/ 0 RN/L = 2.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPLO	CL	CD	L/D
5.253	13.023	.21775	.06177	-.01343	.19827	.10926	1.61464
5.253	16.821	.33463	.06114	-.01574	.30262	.15536	1.94760
5.253	20.687	.46616	.06200	-.01590	.41607	.22359	1.86258
5.253	24.689	.62526	.06254	-.01689	.54107	.31951	1.69345
5.254	28.964	.78795	.06260	-.01736	.65909	.43634	1.51050
5.254	32.900	.95693	.06247	-.02347	.76952	.57223	1.34477
5.254	37.110	1.14437	.06167	-.03296	.87501	.73762	1.18523
5.254	41.357	1.32508	.06029	-.04723	.96478	.92080	1.03880
5.254	45.348	1.41106	.05859	-.05449	.98591	1.01119	.97500
	GRADIENT	.03994	-.00006	-.00126	.02656	.03039	-.03511

B26 C9 N7 F7 W116 V8 E37 R5

(REP018) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDPLAP = -11.700
 SPDGRK = 25.000 RUDDER = .000
 ELEVON = .000 ATLON = .000

RUN NO. 41/ 0 RN/L = 1.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPLO	CL	CD	L/D
5.250	12.572	.25097	.06357	-.01409	.21164	.11215	1.86746
5.250	16.653	.35031	.06175	-.01493	.31792	.15955	1.99285
5.250	20.591	.46222	.06213	-.01591	.42956	.22776	1.86605
5.250	24.639	.63929	.06246	-.01767	.55391	.32525	1.70314
5.250	28.767	.80017	.06446	-.02302	.67024	.44162	1.51696
5.250	32.733	.96899	.06421	-.02992	.78540	.57796	1.33025
5.250	36.655	1.15235	.06316	-.03885	.88416	.74171	1.19207
5.250	40.669	1.35082	.06136	-.05169	.96607	.91708	1.05242
5.250	42.763	1.41656	.05918	-.05783	.99947	1.00559	.99391
	GRADIENT	.05992	-.00003	-.00146	.02670	.03030	-.03472

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TABULATED SOURCE DATA - Q436

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B26 C9 M7 F7 W116 V8 E37 R5

(REP019) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPOBRK = .000 RUDDER = -10.000
 ELEVON = .000 ATLCON = .000

RUN NO. 8/ D RN/L = 1.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
10.270	13.110	.16419	.05603	-.00598	.14720	.09181	1.60339
10.270	16.913	.27121	.05629	-.00165	.24311	.13275	1.63126
10.270	20.666	.39101	.05629	.00215	.34528	.19253	1.79338
10.270	24.776	.53365	.05654	.00117	.46000	.27679	1.66190
10.270	29.713	.68611	.06020	-.00245	.57262	.36242	1.49787
10.270	32.695	.84933	.06176	-.00389	.66140	.51075	1.33410
10.270	36.845	1.02765	.06157	-.01588	.78547	.66550	1.16026
10.270	41.035	1.18271	.06029	-.02902	.85255	.82194	1.03723
10.270	43.098	1.26176	.05813	-.03437	.88160	.90454	.97465
	GRADIENT	.03746	.00013	-.00101	.02528	.02788	-.02775

B26 C9 M7 F7 W116 V8 E26 R5

(YEP020) (05 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = 15.000
 ELEV-R = 15.000 BDFLAP = 16.300
 SPOBRK = 55.000 RUDDER = .000
 ELEVON = 15.000 ATLCON = .000

RUN NO. 8/ D RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
5.255	12.632	.29388	.06356	-.05758	.26798	.14674	1.62621
5.255	16.590	.43455	.06631	-.07676	.39182	.20679	1.69474
5.255	20.428	.59187	.09256	-.09832	.52234	.29332	1.78074
5.255	24.591	.77679	.10045	-.12259	.66454	.41459	1.60290
5.255	28.563	.96382	.10860	-.14746	.79459	.55621	1.42858
5.255	32.591	1.15611	.11577	-.17449	.91171	.72027	1.26578
5.254	36.750	1.35635	.12250	-.20422	1.01349	.90969	1.11411
5.255	41.004	1.55282	.12784	-.23078	1.08799	1.11530	.97551
5.255	43.425	1.66605	.12923	-.25047	1.12116	1.23912	.90480
	GRADIENT	.04551	.00162	-.00633	.02654	.03650	-.03440

B26 C9 M7 F7 W116 V8 E26 R3

(YEP020) (03 NOV 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = 15.000
 ELEV-R = 15.000 BDFLAP = 16.300
 SPDRK = 55.000 RUDDER = .000
 ELEVON = 15.000 ATLCON = .000

RUN NO. 0/ 0 RN/L = 1.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
10.270	20.622	.47842	.07787	-.06996	.42034	.24138	1.74141
10.270	24.684	.64601	.08724	-.09347	.55054	.34905	1.57725
10.270	28.681	.83796	.09710	-.11641	.68846	.48747	1.41232
10.270	32.655	1.00938	.10431	-.14074	.79288	.63202	1.23451
10.270	36.735	1.19525	.11229	-.16214	.89072	.80490	1.10662
10.270	40.806	1.77426	.12568	-.49632	1.26082	1.25484	1.00493
10.270	42.991	1.50125	.12301	-.23189	1.01425	1.11365	.91075
	GRADIENT	.05346	.00215	-.01288	.03225	.04445	-.03675

B26 C9 M7 F7 W116 V8 E26 R3

(REP021) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDRK = 55.800 RUDDER = .000
 ELEVON = -40.000 ATLCON = .000

RUN NO. 35/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
5.254	12.539	.18231	.07767	.01447	.18110	.11540	1.38807
5.254	16.405	.28984	.07236	.01405	.26714	.15429	1.75142
5.254	20.203	.42479	.07084	.01551	.37419	.21318	1.75329
5.254	24.407	.57189	.07001	.02048	.48184	.30011	1.63922
5.254	28.486	.72156	.06956	.02664	.60103	.40528	1.48299
5.254	32.481	.88186	.06996	.03138	.70653	.53234	1.32721
5.254	36.712	1.05135	.06835	.03293	.80196	.68328	1.17370
5.254	40.984	1.22113	.06547	.03195	.87889	.85030	1.05362
5.254	42.985	1.29840	.06419	.03199	.90606	.93222	.97194
	GRADIENT	.03715	-.00034	.00072	.02493	.02752	-.02225

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TABULATED SOURCE DATA - QAS6

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B26 C9 M7 F7 W116 V8 E26 R5

(REPO21) (13 SEP 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = -40.000 AILRON = .000

RUN NO. 14/ 0 RN/L = 1.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CL	CD	L/D
10.270	13.151	.14446	.06198	.01030	.12657	.09322	1.35772
10.270	16.934	.24543	.06029	.01586	.21723	.12917	1.68189
10.270	20.707	.36123	.06101	.02264	.31632	.18490	1.71172
10.270	24.606	.50121	.06299	.03144	.42654	.26745	1.60231
10.270	28.806	.64160	.06484	.03520	.53096	.36397	1.45084
10.270	32.730	.79239	.06612	.03934	.63083	.48406	1.30322
10.270	36.956	.95172	.06735	.04361	.72003	.62600	1.15021
10.270	41.136	1.11898	.06860	.04172	.79895	.78626	1.01611
10.270	43.140	1.19034	.06560	.04507	.82372	.86179	.95582
	GRADIENT	.03551	.00021	.00114	.02384	.02632	-.02158

B26 C9 M7 F7 W116 V8 E26 R5

(REPO22) (13 SEP 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = 10.000
 ELEV-R = -10.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = 10.000

RUN NO. 39/ 0 RN/L = 1.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMFWO	CL	CD	L/D
5.250	12.515	.22901	.06787	-.01390	.20867	.11588	1.80243
5.250	16.569	.34815	.06673	-.01733	.31466	.16324	1.92762
5.250	20.534	.47942	.06744	-.02044	.42530	.23132	1.83859
5.250	24.619	.63765	.06901	-.02407	.54979	.33029	1.66459
5.250	28.756	.79594	.06983	-.02947	.68419	.44413	1.49546
5.250	32.692	.96427	.07023	-.03708	.77356	.57993	1.33394
5.250	36.826	1.14667	.06971	-.04759	.87608	.74310	1.17896
5.250	40.898	1.32886	.06779	-.06023	.96007	.92126	1.04212
5.250	42.845	1.41336	.06584	-.06721	.99149	1.00938	.98228
	GRADIENT	.03973	.00001	-.00173	.02644	.03017	-.03225

B26 C9 M7 F7 W116 V8 E26 R3

(REP022) (13 SEP 74)

REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = 10.000
 ELEV-R = -10.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = 10.000

RUN NO. 12/ 0 RN/L = 1.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPW0	CL	CD	L/D
10.270	13.054	.16840	.05855	-.00769	.15062	.09507	1.58642
10.270	16.888	.27594	.05837	-.00527	.24708	.13600	1.81674
10.270	20.680	.39978	.06030	-.00412	.35274	.19760	1.78511
10.270	24.773	.54414	.06222	-.00681	.46789	.28452	1.64486
10.270	28.765	.70442	.06543	-.00986	.58601	.39633	1.47837
10.270	32.708	.86559	.06837	-.02149	.69247	.52357	1.32258
10.270	36.682	1.04626	.06654	-.02409	.79574	.68276	1.18548
10.270	41.126	1.21923	.06748	-.03684	.87402	.85273	1.02498
10.270	43.159	1.29894	.06644	-.04289	.90240	.93666	.96343
	GRADIENT	.03641	.00034	-.00123	.02575	.02875	-.02755

B26 C9 M7 F7 W116 V8 E26 R5

(REP023) (13 SEP 74)

REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 40/ 0 RN/L = 1.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPW0	CL	CD	L/D
5.250	12.619	.22387	.06573	-.00551	.20391	.11301	1.80440
5.250	16.602	.34329	.06268	-.00789	.31109	.15808	1.96797
5.250	20.540	.46653	.06242	-.01206	.42808	.22705	1.88540
5.250	24.650	.64439	.05997	-.01610	.55952	.32522	1.72046
5.250	28.762	.80707	.06641	-.02175	.67539	.44678	1.51168
5.250	32.702	.97565	.06491	-.02929	.78393	.58174	1.35102
5.250	36.646	1.15626	.06633	-.03948	.88540	.74661	1.18590
5.250	40.675	1.33404	.06730	-.05120	.96458	.92390	1.04414
5.250	42.764	1.41440	.06368	-.05671	.99517	1.00702	.98816
	GRADIENT	.04022	.00009	-.00171	.02687	.03050	-.03331

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(REF023) (13 SEP 74)

PARAMETRIC DATA

BETA	=	.000	ELEV-L	=	.000
ELEV-R	=	.000	BDFLAP	=	-11.700
SPDRBK	=	55.000	RUDDER	=	.000
ELEVON	=	.000	AILRON	=	.000

MACH	ALPHA	CN	CA	CLMFWD	CL	CD	L/D
10.270	13.076	.16345	.05661	-.00394	.14640	.09212	1.58929
10.270	16.863	.26774	.05624	-.00147	.23991	.13149	1.82456
10.270	20.685	.38462	.05688	.00062	.33974	.18907	1.79688
10.270	24.766	.53076	.05803	-.00218	.45753	.27521	1.66247
10.270	28.761	.68165	.06023	.00050	.56875	.38088	1.49324
10.270	32.703	.83780	.06038	-.01048	.67237	.50346	1.33549
10.270	36.929	1.01648	.06047	-.01753	.77624	.65904	1.17783
10.270	41.110	1.18975	.05886	-.03178	.85772	.82661	1.03763
10.270	43.131	1.25833	.05780	-.03634	.87880	.90246	.97377
	GRADIENT	.05735	.00010	-.00113	.02521	.02777	-.02738

(REF024) (13 SEP 74)

PARAMETRIC DATA

BETA	=	.000	ELEV-L	=	-40.000
ELEV-R	=	-40.000	BDFLAP	=	-11.700
SPDRBK	=	85.000	RUDDER	=	.000
ELEVON	=	-40.000	AILRON	=	.000

MACH	ALPHA	CN	CA	CLNFWO	CL	CD	L/D
5.250	2.355	-.06408	.11423	.02966	-.06672	.11150	-.61626
5.250	6.384	.02292	.10091	.02894	.01156	.10263	.11243
5.250	10.301	.11440	.09174	.02867	.09615	.11072	.86843
5.250	14.611	.23106	.06194	.02665	.20293	.13758	1.47498
5.250	18.808	.35442	.07504	.02423	.31195	.18421	1.69342
5.250	22.488	.48344	.07136	.02492	.41939	.25065	1.67188
5.250	26.628	.63035	.06965	.02627	.53227	.34478	1.54376
5.250	30.688	.78657	.07074	.02601	.64031	.46227	1.38515
5.250	32.578	.85985	.07078	.02641	.68645	.52264	1.31343
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

B26 C9 M14 F7 W116 V8 E26 R5

(REP025) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDGRK = 85.000 RUDDER = .000
 ELEVON = -40.000 ATLON = .000

RUN NO. 43/ 0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
5.250	12.456	.17669	.06807	.02774	.15373	.12415	1.23630
5.250	16.466	.29686	.07963	.02621	.26212	.16050	1.63306
5.250	20.439	.42524	.07413	.02352	.37238	.21796	1.70937
5.250	24.290	.56012	.07103	.02603	.48132	.29515	1.63074
5.250	28.437	.71396	.06964	.02708	.59465	.40121	1.48213
5.250	32.316	.86550	.07015	.02679	.69394	.52196	1.32945
5.250	36.276	1.02454	.06929	.02573	.78495	.66207	1.18959
5.250	39.221	1.14224	.06701	.02357	.84254	.77416	1.08633
	GRADIENT	.03636	-.00065	-.00006	.02613	.02466	-.01379

B26 C9 M14 F7 W116 V8 E26 R5

(REP026) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDGRK = 85.000 RUDDER = .000
 ELEVON = -40.000 ATLON = .000

RUN NO. 44/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CA	CLMPWD	CL	CD	L/D
5.250	-4.742	.41889	.07296	.02236	.36674	.21515	1.70460
5.250	-3.663	.41934	.07270	.02346	.36726	.21507	1.70758
5.250	-2.741	.41893	.07278	.02434	.36664	.21501	1.70611
5.250	-1.753	.41897	.07296	.02496	.36679	.21522	1.70428
5.250	-.669	.41894	.07256	.02499	.36692	.21492	1.70695
5.250	.142	.41916	.07226	.02509	.36723	.21461	1.71111
5.250	1.160	.41624	.07262	.02520	.36625	.21462	1.70647
5.250	2.129	.41734	.07264	.02514	.36552	.21458	1.70359
5.250	3.046	.41721	.07265	.02478	.36527	.21428	1.70459
5.250	4.017	.41732	.07276	.02440	.36534	.21443	1.70360
5.250	4.988	.41759	.07287	.02425	.36535	.21462	1.70322
	GRADIENT	-.00022	-.00001	.00014	-.00020	-.00009	-.00026

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(REPORT) (13 SEP 74)

PARAMETRIC DATA

ALPHA =	20.000	ELEV-L =	-40.000
ELEV-R =	-40.000	BDFLAP =	-11.700
SPOBRK =	65.000	RUDDER =	.000
ELEVON =	-40.000	AILERON =	.000

MACH	BETA	CN	CA	CLMPWD	CL	CD	L/D
5.250	-4.730	.42100	.07270	.02247	.36885	.21538	1.71091
5.250	-3.621	.42108	.07272	.02312	.36892	.21564	1.71081
5.250	-2.712	.42106	.07298	.02410	.36880	.21589	1.70830
5.250	-1.727	.42097	.07304	.02419	.36869	.21591	1.70764
5.250	-.701	.42186	.07232	.02373	.36978	.21554	1.71556
5.250	.123	.42232	.07197	.02374	.37033	.21538	1.71944
5.250	1.170	.42143	.07280	.02445	.36920	.21585	1.71046
5.250	2.139	.42099	.07297	.02492	.36873	.21586	1.70819
5.250	3.058	.42111	.07269	.02417	.36894	.21563	1.71099
5.250	4.002	.42080	.07253	.02374	.36870	.21538	1.71184
5.250	4.885	.42062	.07252	.02318	.36856	.21529	1.71191
	GRADIENT	-.00003	-.00002	.00000	-.00002	-.00003	.00012

(REPO28) (13 SEP 74)

PARAMETRIC DATA

BETA	=	.000	ELEV-L	=	-40.000
ELEV-R	=	-40.000	BDFLAP	=	-11.700
SPDRBK	=	53.000	RUDDER	=	.000
ELEVON	=	-40.000	AILRON	=	.000

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
5.250	2.235	-.05742	.10265	.01233	-.06139	.10054	-.61060
5.250	6.215	.02963	.08922	.01086	.01979	.09190	.21536
5.250	10.153	.12007	.08122	.01275	.10388	.10111	1.02732
5.250	14.457	.23472	.07429	.01389	.20874	.13053	1.59910
5.250	18.399	.35360	.06985	.01584	.31348	.17788	1.76227
5.250	22.401	.48446	.06793	.01927	.42201	.24742	1.70563
5.250	26.508	.63021	.06709	.02239	.53401	.34132	1.56454
5.250	30.533	.78163	.06691	.02384	.63926	.45473	1.40360
5.250	32.431	.85764	.06641	.02322	.68720	.51767	1.32748
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

B26 C9 M14 F7 W116 V8 E26 R8

(REP029) (13 SEP 74)

REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEVON = -40.000 AILRON = .000

RUN NO. 47/ 0 RN/L = 1.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLMPWD	CL	CD	L/D
5.250	12.237	.17477	.07854	.01423	.15415	.11360	1.35435
5.250	16.135	.26540	.07267	.01612	.25396	.14913	1.70301
5.250	20.318	.41737	.06954	.01933	.36725	.21014	1.74768
5.250	24.156	.55048	.06972	.02048	.47375	.28869	1.63992
5.250	28.310	.70407	.06983	.02212	.58675	.39538	1.48402
5.250	32.202	.85186	.06894	.02329	.68408	.51230	1.33531
5.250	36.168	1.00802	.06800	.02332	.77364	.64978	1.19062
5.250	38.987	1.12069	.06587	.02251	.82966	.75627	1.09703
	GRADIENT	.03569	-.00035	.00034	.02568	.02438	-.01735

B26 C9 M7 F7 W116 V8 E37 R5

(AEP001) (13 SEP 74)

REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 20/ 0 RN/L = 1.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	XCP/L	CY	CYN	CSL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	-10.168	.65739	.09272	.00921	.01396	-.04126	-.04277	-.04130	-.04009	-.03680	-.02935
5.250	-8.158	.65813	.07230	.00706	.01337	-.04052	-.04129	-.04048	-.03938	-.03592	-.02880
5.250	-6.067	.65863	.05160	.00513	.01011	-.04035	-.04059	-.03969	-.03891	-.03579	-.02932
5.250	-3.974	.65814	.03122	.00316	.00683	-.04000	-.04082	-.03972	-.03904	-.03632	-.03030
5.250	-1.974	.65835	.01168	.00191	.00310	-.04069	-.04129	-.04041	-.03982	-.03680	-.03034
5.250	-.102	.65881	-.00328	-.00067	.00038	-.03978	-.04129	-.04045	-.03986	-.03691	-.03090
5.250	1.907	.65885	-.02074	-.00303	-.00285	-.04125	-.04177	-.04106	-.04055	-.03780	-.03316
5.250	3.888	.65920	-.04072	-.00423	-.00645	-.03971	-.04126	-.04033	-.03981	-.03780	-.03377
5.250	4.821	.66008	-.05109	-.00495	-.00800	-.04047	-.04183	-.04063	-.03993	-.03874	-.03483
	GRADIENT	.00019	-.00921	-.00097	-.00167	-.00001	-.00006	-.00008	-.00009	-.00025	-.00055

DATE 08 NOV 74

TABULATED SOURCE DATA - QA36

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B26 C9 M7 F7 W116 V6 E37 R5

(AEP001) (13 SEP 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 19/ 0 RN/L = 1.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	-10.202	.64609	.07021	.01240	.01136	-.00669	-.00743	-.00845	-.00552	-.00640	-.00062
10.270	-8.167	.64652	.05337	.01007	.00876	-.00523	-.00743	-.00890	-.00569	-.00640	-.00033
10.270	-6.054	.64809	.03782	.00739	.00661	-.00386	-.00744	-.00890	-.00564	-.00640	-.00027
10.270	-3.875	.64783	.02196	.00474	.00433	-.00323	-.00744	-.00795	-.00529	-.00568	-.00005
10.270	-1.878	.64834	.00872	.00189	.00193	-.00650	-.00744	-.00795	-.00552	-.00570	.00031
10.270	-.072	.64726	-.00234	-.00071	-.00027	-.00611	-.00744	-.00879	-.00564	-.00570	.00072
10.270	1.981	.64790	-.01688	-.00362	-.00288	-.00670	-.00744	-.00879	-.00564	-.00524	.00089
10.270	3.961	.64844	-.03106	-.00670	-.00510	-.00699	-.00744	-.00879	-.00558	-.00513	.00088
10.270	4.936	.64852	-.03773	-.00757	-.00619	-.00700	-.00745	-.00885	-.00565	-.00467	.00099
	GRADIENT	-.00004	-.00679	-.00142	-.00120	-.00017	-.00000	-.00011	-.00003	.00013	.00011

B26 C9 M7 F7 W116 V6 E37 R5

(AEP002) (13 SEP 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 21/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	-10.159	.65536	.09502	.00706	.01651	-.04324	-.04408	-.04268	-.04159	-.03903	-.03261
5.250	-8.137	.65674	.07463	.00548	.01358	-.04324	-.04212	-.04177	-.04110	-.03993	-.03227
5.250	-6.058	.65684	.05268	.00427	.01001	-.04258	-.04161	-.04136	-.04057	-.03861	-.03212
5.250	-3.926	.65577	.03128	.00289	.00628	-.04275	-.04184	-.04178	-.04107	-.03904	-.03316
5.250	-1.930	.65510	.01202	.00188	.00270	-.04263	-.04233	-.04178	-.04134	-.03914	-.03340
5.250	-.100	.65512	-.00321	-.00081	.00008	-.04240	-.04213	-.04152	-.04113	-.03904	-.03373
5.250	1.914	.65409	-.02159	-.00291	-.00325	-.04392	-.04291	-.04275	-.04230	-.04077	-.03548
5.250	3.890	.65474	-.04210	-.00365	-.00703	-.04307	-.04254	-.04235	-.04158	-.04069	-.03637
5.250	4.803	.65502	-.05293	-.00448	-.00874	-.04227	-.04263	-.04198	-.04157	-.04088	-.03693
	GRADIENT	-.00010	-.00953	-.00088	-.00171	-.00002	-.00009	-.00007	-.00007	-.00025	-.00047

B26 C9 M7 F7 W113 V0 E37 R5

(AEP002) (13 SEP 74)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 65.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 16/ 0 RM/L = 1.35 GRADIENT INTERVAL = -8.00/ 5.00

MACH	BETA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	-10.159	.64242	.07073	.01109	.01131	-.00396	-.00655	-.00742	-.00403	-.00457	.00302
10.270	-8.158	.64375	.03400	.00938	.00903	-.00203	-.00667	-.00776	-.00408	-.00463	.00313
10.270	-6.092	.64508	.03831	.00740	.00848	-.00300	-.00672	-.00764	-.00408	-.00439	.00321
10.270	-3.885	.64652	.02354	.00453	.00432	-.00370	-.00623	-.00681	-.00393	-.00348	.00346
10.270	-1.951	.64726	.01074	.00202	.00193	-.00381	-.00612	-.00704	-.00394	-.00332	.00321
10.270	-.057	.64862	-.00197	-.00073	-.00013	-.00332	-.00646	-.00732	-.00416	-.00332	.00339
10.270	2.013	.64761	-.01528	-.00332	-.00233	-.00381	-.00663	-.00777	-.00428	-.00332	.00415
10.270	3.889	.64664	-.02970	-.00392	-.00484	-.00381	-.00668	-.00766	-.00434	-.00332	.00374
10.270	4.870	.64538	-.03772	-.00727	-.00689	-.00420	-.00663	-.00771	-.00417	-.00332	.00436
	GRADIENT	-.00009	-.00694	-.00135	-.00118	-.00003	-.00006	-.00011	-.00004	.00001	.00012

B26 C9 M7 F7 W116 V0 E37 R5

(AEP003) (13 SEP 74)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 30.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 65.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 22/ 0 RM/L = 1.63 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	-10.592	.65782	.06472	.01293	.02219	-.03841	-.03977	-.03697	-.03591	-.03883	-.02197
5.250	-8.684	.65778	.06768	.00928	.01833	-.03838	-.03961	-.03733	-.03882	-.03187	-.02449
5.250	-6.542	.65778	.04990	.00614	.01413	-.03929	-.04010	-.03798	-.03762	-.03287	-.02489
5.250	-4.610	.65779	.03330	.00418	.01001	-.03872	-.04012	-.03797	-.03773	-.03353	-.02627
5.250	-2.436	.65766	.01437	.00211	.00312	-.03956	-.04002	-.03796	-.03750	-.03386	-.02689
5.250	-.497	.65812	-.00153	-.00069	.00134	-.03880	-.03973	-.03793	-.03761	-.03484	-.02940
5.250	1.551	.65886	-.01690	-.00364	-.00279	-.03932	-.03964	-.03847	-.03788	-.03376	-.03090
5.250	3.397	.65922	-.03919	-.00352	-.00767	-.03868	-.03992	-.03872	-.03875	-.03649	-.03181
5.250	4.423	.65936	-.04722	-.00645	-.00983	-.03949	-.04010	-.03893	-.03890	-.03748	-.03364
	GRADIENT	.00020	-.00686	-.00121	-.00215	-.00003	.00001	-.00011	-.00014	-.00043	-.00080

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TABULATED SOURCE DATA - Q438

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B26 C9 M7 F7 W116 V8 E37 R5

(AEP003) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 30.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 85.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 17/ 0 RN/L = 1.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	-10.152	.65167	.06815	.01227	.01799	.00342	-.00285	-.00266	-.00090	.00392	.01811
10.270	-8.119	.65107	.05456	.00928	.01520	.00047	-.00284	-.00288	-.00088	.00353	.01407
10.270	-6.058	.64939	.03957	.00665	.01084	-.00101	-.00284	-.00294	-.00088	.00335	.01135
10.270	-3.934	.64890	.02576	.00416	.00695	-.00098	-.00282	-.00269	-.00086	.00339	.01039
10.270	-2.014	.64991	.01345	.00169	.00457	-.00068	-.00282	-.00189	-.00086	.00339	.01027
10.270	-.095	.65146	-.00102	-.00031	-.00035	-.00011	-.00283	-.00190	-.00087	.00337	.01024
10.270	1.915	.65112	-.01552	-.00265	-.00374	-.00098	-.00281	-.00308	-.00109	.00163	.00850
10.270	3.870	.65067	-.03008	-.00497	-.00746	-.00097	-.00310	-.00331	-.00208	.00105	.00885
10.270	4.865	.65132	-.03618	-.00649	-.00894	-.00099	-.00311	-.00332	-.00221	.00009	.00582
	GRADIENT	.00022	-.00715	-.00118	-.00187	-.00003	-.00004	-.00013	-.00016	-.00039	-.00054

B26 C9 M7 F7 W116 V8 E37 R5

(AEP004) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 30.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 85.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 25/ 0 RN/L = 1.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	-10.597	.65890	.08394	.01279	.02160	-.03563	-.03821	-.03697	-.03589	-.03095	-.02300
5.250	-8.669	.65898	.06886	.00991	.01795	-.03591	-.03821	-.03704	-.03562	-.03142	-.02402
5.250	-6.925	.65882	.04923	.00663	.01384	-.03762	-.03822	-.03724	-.03654	-.03217	-.02488
5.250	-4.808	.65941	.03336	.00443	.00979	-.03756	-.03880	-.03723	-.03673	-.03280	-.02606
5.250	-2.442	.65929	.01451	.00178	.00537	-.03743	-.03835	-.03722	-.03648	-.03278	-.02689
5.250	-.489	.65909	-.00107	-.00102	.00177	-.03713	-.03819	-.03721	-.03644	-.03294	-.02687
5.250	1.561	.65916	-.01811	-.00384	-.00250	-.03764	-.03818	-.03721	-.03660	-.03378	-.02674
5.250	3.604	.65968	-.03720	-.00611	-.00693	-.03764	-.03901	-.03819	-.03762	-.03479	-.02986
5.250	4.454	.65969	-.04477	-.00721	-.00866	-.03762	-.03892	-.03816	-.03759	-.03578	-.03109
	GRADIENT	.00004	-.00858	-.00129	-.00203	-.00002	-.00004	-.00011	-.00012	-.00032	-.00054

B26 C9 M7 F7 W116 V8 E37 R5

(AEP004) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 30.000 ELEV-L = .000
 ELEV-R = .000 BDPLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 ATLON = .000

RUN NO. 16/ 0 RM/L = 1.47 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	-10.147	.65191	.06667	.01314	.01758	.00114	-.00396	-.00360	-.00307	.00227	.01950
10.270	-8.122	.65130	.05249	.01030	.01427	-.00102	-.00360	-.00370	-.00306	.00182	.01305
10.270	-6.074	.65058	.04107	.00725	.01198	-.00301	-.00399	-.00382	-.00338	.00164	.00959
10.270	-3.905	.65216	.02538	.00420	.00768	-.00401	-.00408	-.00365	-.00396	.00164	.00947
10.270	-1.958	.65256	.01138	.00194	.00353	-.00253	-.00373	-.00264	-.00308	.00161	.00943
10.270	-.094	.65217	-.00281	-.00041	-.00029	-.00273	-.00350	-.00292	-.00296	.00132	.00783
10.270	1.902	.65137	-.01510	-.00305	-.00362	-.00270	-.00382	-.00416	-.00305	-.00011	.00634
10.270	3.874	.65159	-.02995	-.00538	-.00734	-.00371	-.00361	-.00434	-.00459	-.00125	.00589
10.270	4.860	.65076	-.03579	-.00703	-.00887	-.00417	-.00397	-.00459	-.00432	-.00174	.00430
	GRADIENT	-.00016	-.00699	-.00127	-.00188	-.00006	.00001	-.00017	-.00017	-.00042	-.00059

B26 C9 M7 F7 W116 V8 E37 R5

(AEP005) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = 5.000 ELEV-L = .000
 ELEV-R = .000 BDPLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 ATLON = .000

RUN NO. 24/ 0 RM/L = 1.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	12.831	.67235	-.05854	.00090	-.00881	-.03976	-.04003	-.04066	-.03969	-.03830	-.03414
5.250	16.830	.66542	-.05565	-.00213	-.00780	-.04182	-.04338	-.04257	-.04081	-.04033	-.03617
5.250	20.654	.66234	-.05258	-.00456	-.00811	-.04049	-.04290	-.04170	-.04083	-.03984	-.03567
5.250	24.638	.66116	-.04845	-.00652	-.00868	-.04193	-.04237	-.04160	-.04073	-.03931	-.03475
5.250	28.681	.66129	-.04732	-.00735	-.00914	-.04222	-.04255	-.04171	-.04078	-.03932	-.03428
5.250	32.872	.66254	-.04763	-.00708	-.01041	-.04040	-.04123	-.03961	-.03882	-.03727	-.03080
5.250	37.120	.66353	-.04607	-.00798	-.01097	-.03960	-.03990	-.03833	-.03757	-.03546	-.02974
5.250	41.288	.66437	-.04401	-.00893	-.01148	-.03818	-.03841	-.03655	-.03578	-.03362	-.02674
5.250	43.284	.66530	-.04276	-.00930	-.01130	-.03706	-.03803	-.03582	-.03536	-.03230	-.02417
	GRADIENT	-.00012	.00047	-.00026	-.00016	.00010	.00013	.00019	.00017	.00023	.00035

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TABULATED SOURCE DATA - 0A36

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B26 C9 M7 F7 W116 V8 E37 R5

(AEP005) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = 5.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 19/ 0 RN/L = 1.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	12.776	.65532	-.04223	-.00484	-.00431	.00109	-.00328	-.00242	-.00052	.00082	.02291
10.270	16.596	.64923	-.04067	-.00612	-.00494	-.00047	-.00328	-.00247	-.00080	.00077	.01788
10.270	20.394	.64717	-.03876	-.00717	-.00578	-.00342	-.00345	-.00270	-.00110	.00001	.01586
10.270	24.478	.64793	-.03830	-.00775	-.00654	-.00273	-.00322	-.00247	-.00121	.00076	.01486
10.270	28.458	.65060	-.04009	-.00707	-.00901	-.00205	-.00186	-.00219	-.00092	.00129	.01480
10.270	32.394	.65315	-.03959	-.00712	-.00982	-.00057	-.00106	-.00077	.00065	.00252	.01763
10.270	36.580	.65484	-.03973	-.00744	-.01020	.00096	.00027	-.00013	.00125	.00305	.01456
10.270	40.738	.65905	-.04068	-.00786	-.01247	.00381	.00255	.00258	.00329	.00457	.01457
10.270	42.795	.65948	-.03795	-.00836	-.01149	.00826	.00868	.00770	.00781	.00950	.01764
	GRADIENT	.00030	.00006	-.00008	-.00027	.00022	.00031	.00026	.00022	.00023	-.00014

B26 C9 M7 F7 W116 V8 E37 R5

(AEP006) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = 5.000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 65.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 25/ 0 RN/L = 1.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	16.886	.65419	-.03851	-.00106	-.00832	-.04412	-.04291	-.04254	-.04191	-.04337	-.03769
5.250	18.429	.65596	-.03641	-.00260	-.00843	-.04417	-.04230	-.04234	-.04276	-.04372	-.03827
5.250	20.596	.65573	-.03467	-.00416	-.00871	-.04359	-.04267	-.04197	-.04231	-.04332	-.03716
5.250	24.885	.65720	-.03082	-.00656	-.00893	-.04424	-.04280	-.04187	-.04206	-.04317	-.03623
5.250	28.913	.65706	-.04968	-.00754	-.00941	-.04407	-.04302	-.04168	-.04193	-.04268	-.03521
5.250	32.920	.65940	-.05090	-.00705	-.01107	-.04255	-.04217	-.04036	-.04068	-.04079	-.03209
5.250	37.163	.66154	-.04830	-.00813	-.01124	-.04221	-.04071	-.03900	-.03903	-.03913	-.03078
5.250	41.344	.66359	-.04593	-.00890	-.01172	-.04086	-.03966	-.03761	-.03772	-.03717	-.02848
5.250	43.350	.66440	-.04481	-.00932	-.01183	-.04053	-.03881	-.03866	-.03702	-.03596	-.02659
	GRADIENT	.00036	.00045	-.00027	-.00014	.00013	.00014	.00021	.00020	.00028	.00042

B26 C9 M7 F7 M116 V6 E37 R3

(AEP007) (13 SEP 74)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 SDFLAP = -11.700
 SPDBRK = 85.000 RUDDER = .000
 ELEVON = -40.000 ATLON = .000

RUN NO. 26/ 0 RN/L = 1.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CSL	CP1	CP2	CP3	CP4	CP5	CP6
5.254	12.916	.59137	-.00556	.00029	-.00029	-.03454	-.03538	-.03604	-.03473	-.03497	-.03112
5.254	16.837	.62077	-.00619	.00008	-.00019	-.03593	-.03664	-.03674	-.03571	-.03572	-.03227
5.254	20.732	.63026	-.00481	-.00053	-.00019	-.03384	-.03746	-.03728	-.03604	-.03608	-.03220
5.254	24.941	.63424	-.00444	-.00096	.00002	-.03614	-.03750	-.03631	-.03555	-.03539	-.03140
5.254	28.946	.63672	-.00529	-.00085	-.00006	-.03495	-.03688	-.03514	-.03451	-.03424	-.03046
5.254	33.002	.63844	-.00594	-.00071	-.00015	-.03462	-.03652	-.03455	-.03357	-.03330	-.02909
5.254	37.259	.64066	-.00651	-.00097	-.00015	-.03377	-.03484	-.03263	-.03172	-.03135	-.02757
5.254	41.425	.64241	-.00626	-.00116	-.00009	-.03276	-.03351	-.03085	-.03063	-.02870	-.02527
5.254	43.368	.64311	-.00604	-.00130	.00003	-.03203	-.03213	-.02893	-.02952	-.02634	-.02225
GRADIENT		.00126	-.00003	-.00005	.00001	.00011	.00012	.00024	.00020	.00025	.00026

RUN NO. 1/ 0 RN/L = 1.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CSL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.105	.61447	-.00398	-.00055	.00007	.00390	-.00367	-.00741	-.00449	-.00458	.01586
10.270	16.922	.62159	-.00443	-.00047	-.00010	.00236	-.00414	-.00822	-.00473	-.00500	.01212
10.270	20.701	.62453	-.00249	-.00093	.00010	.00257	-.00599	-.00787	-.00472	-.00440	.00874
10.270	24.802	.62759	-.00224	-.00084	.00013	.00427	-.00651	-.00729	-.00424	-.00345	.00716
10.270	28.903	.62932	-.00249	-.00046	-.00039	.00647	-.00453	-.00596	-.00319	-.00305	.00642
10.270	32.718	.63138	-.00226	-.00047	-.00027	.01658	-.00277	-.00549	-.00223	-.00182	.00621
10.270	36.869	.63288	-.00276	-.00052	-.00113	.02076	-.00242	-.00294	-.00151	-.00127	.00586
10.270	41.096	.63766	-.00369	-.00047	-.00067	.01954	-.00219	-.00325	-.00122	-.00096	.00651
10.270	43.123	.63706	-.00193	-.00054	.00022	.02271	-.00242	-.00317	-.00146	-.00121	.00465
GRADIENT		.00066	.00004	.00001	-.00002	.00075	.00009	.00019	.00013	.00015	-.00029

B26 C9 M7 F7 W116 V8 E37 R5

(AEP000) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = -40.000 AILRON = .000

RUN NO. 27/ 0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.255	12.749	.62290	-.00530	-.00010	-.00016	-.03978	-.03986	-.04033	-.03989	-.04010	-.03565
5.255	16.609	.63347	-.00529	-.00027	-.00003	-.03991	-.04059	-.04046	-.04010	-.04035	-.03597
5.255	20.658	.63622	-.00411	-.00077	-.00000	-.04032	-.04096	-.04106	-.04055	-.04067	-.03593
5.255	24.863	.63725	-.00373	-.00103	-.00009	-.04011	-.04097	-.04007	-.04003	-.04007	-.03476
5.255	28.917	.63815	-.00329	-.00094	-.00010	-.03867	-.04046	-.03893	-.03812	-.03821	-.03382
5.255	32.926	.63953	-.00574	-.00084	-.00022	-.03841	-.04001	-.03841	-.03786	-.03777	-.03252
5.255	37.115	.64122	-.00609	-.00101	-.00028	-.03756	-.03871	-.03692	-.03609	-.03556	-.03025
5.255	41.363	.64304	-.00696	-.00112	-.00027	-.03694	-.03765	-.03450	-.03474	-.03271	-.02770
5.255	43.370	.64349	-.00697	-.00127	-.00014	-.03575	-.03612	-.03267	-.03356	-.03054	-.02471
	GRADIENT	.00052	-.00007	-.00003	-.00001	.00013	.00012	.00025	.00022	.00031	.00034

RUN NO. 2/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.121	.62340	-.00416	-.00057	.00003	.05691	-.01111	-.01154	-.00794	-.00715	.01114
10.270	16.902	.62735	-.00380	-.00062	.00007	.04357	-.01151	-.01165	-.00811	-.00674	.00777
10.270	20.678	.62677	-.00266	-.00079	.00001	.11225	-.01117	-.01125	-.00758	-.00621	.00518
10.270	24.795	.62817	-.00236	-.00081	.00012	.14030	-.01088	-.01034	-.00682	-.00534	.00423
10.270	28.790	.63014	-.00142	-.00080	.00010	.12304	-.00938	-.00925	-.00570	-.00418	.00412
10.270	32.706	.63171	-.00108	-.00054	.00038	.12475	-.00857	-.00845	-.00441	-.00378	.00400
10.270	36.890	.63437	-.00093	-.00075	.00063	.13195	-.00759	-.00759	-.00377	-.00291	.00400
10.270	41.139	.63538	-.00085	-.00104	.00195	.15167	-.00662	-.00646	-.00314	-.00269	.00398
10.270	43.097	.63785	-.00132	-.00102	.00092	.14804	-.00598	-.00548	-.00313	-.00263	.00310
	GRADIENT	.00040	.00011	-.00001	.00005	.00307	.00019	.00021	.00019	.00017	-.00020

B26 C8 M7 P7 W118 V4 E37 R1

(AEP000) (13 SEP 74)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BOFLAP = -11.700
 SPDBRK = 55.000 RUDDER = -10.000
 ELEVON = .000 ATLRON = .000

RUN NO. 28/ 0 RN/L = 1.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.255	12.996	.66369	-.01337	.00367	-.00244	-.03991	-.04219	-.03925	-.03700	-.03339	-.02639
5.255	16.808	.66226	-.01302	.00232	-.00206	-.04039	-.04290	-.03967	-.03761	-.03369	-.02905
5.255	20.601	.66089	-.01045	.00114	-.00135	-.04039	-.04282	-.04030	-.03768	-.03663	-.02904
5.255	24.777	.66055	-.00917	.00041	-.00118	-.04094	-.04167	-.03916	-.03712	-.03346	-.02915
5.255	28.610	.66100	-.00939	.00027	-.00106	-.03696	-.04003	-.03743	-.03561	-.03399	-.02816
5.255	32.627	.66178	-.00833	.00002	-.00112	-.03963	-.03963	-.03752	-.03563	-.03498	-.02996
5.254	36.958	.66362	-.00710	-.00048	-.00120	-.03620	-.03963	-.03698	-.03531	-.03463	-.03008
5.254	41.265	.66506	-.00683	-.00094	-.00096	-.03701	-.03837	-.03593	-.03531	-.03490	-.03096
5.254	45.288	.66591	-.00664	-.00111	-.00080	-.03542	-.03744	-.03492	-.03481	-.03436	-.03110
	GRADIENT	.00010	.00026	-.00014	.00004	.00015	.00017	.00016	.00009	.00005	-.00013

RUN NO. 5/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.092	.65479	-.00799	.00067	-.00063	.09442	-.00541	-.00421	-.00237	-.00071	.03153
10.270	16.679	.64666	-.00530	.00004	-.00036	.06732	-.00370	-.00468	-.00306	-.00094	.01800
10.270	20.666	.64536	-.00418	-.00031	-.00032	.06326	-.00540	-.00468	-.00298	-.00087	.01261
10.270	24.808	.64600	-.00413	-.00038	-.00068	.06139	-.00430	-.00381	-.00224	.00025	.01110
10.270	28.732	.64933	-.00294	-.00033	-.00023	.10722	-.00376	-.00274	-.00119	.00061	.01067
10.270	32.690	.65307	-.00238	-.00033	-.00038	.09333	-.00229	-.00206	.00031	.00197	.01321
10.270	36.922	.65532	-.00115	-.00060	.00077	.12623	-.00109	-.00087	-.00032	.00214	.01171
10.270	41.070	.65665	-.00184	-.00078	-.00025	.18908	.00231	.00251	.00241	.00534	.01300
10.270	45.094	.65747	-.00173	-.00090	.00002	.31251	.00662	.00673	.00577	.00735	.01433
	GRADIENT	.00029	.00019	-.00004	.00003	.00344	.00031	.00031	.00024	.00025	-.00036

DATE 08 NOV 74

TABULATED SOURCE DATA - Q438

PAGE 33

826 C9 M7 P7 W118 V8 E37 R5

(AEP010) (13 SEP 74)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 DREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDRK = 85.000 RUDDER = -10.000
 ELEVON = .000 AILRON = .000

RUN NO. 29/ 0 RN/L = 1.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.254	13.039	.64028	-.01620	.00409	-.00276	-.03808	-.03990	-.03770	-.03525	-.03330	-.02621
5.254	16.804	.65181	-.01299	.00290	-.00213	-.04034	-.03999	-.03841	-.03685	-.03433	-.02809
5.254	20.622	.65491	-.01167	.00108	-.00151	-.04159	-.04068	-.03890	-.03733	-.03537	-.02956
5.254	24.618	.65681	-.01013	.00013	-.00144	-.04003	-.03959	-.03785	-.03634	-.03436	-.02941
5.254	28.613	.65915	-.00974	-.00002	-.00133	-.03732	-.03849	-.03593	-.03498	-.03279	-.02796
5.254	32.630	.66102	-.00868	-.00045	-.00127	-.03632	-.03758	-.03591	-.03456	-.03340	-.02895
5.254	36.998	.66285	-.00771	-.00074	-.00114	-.03748	-.03678	-.03554	-.03458	-.03329	-.02839
5.254	41.198	.66521	-.00765	-.00109	-.00075	-.03561	-.03656	-.03440	-.03455	-.03316	-.02938
5.254	45.312	.66621	-.00752	-.00115	-.00062	-.03402	-.03557	-.03348	-.03394	-.03258	-.02969
	GRADIENT	.00070	.00026	-.00015	.00006	.00017	.00016	.00016	.00008	.00005	-.00006

RUN NO. 7/ 0 RN/L = 1.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.080	.64685	-.00750	.00102	-.00102	-.04293	-.00316	-.00298	-.00082	.00011	.03215
10.270	16.905	.64598	-.00460	-.00003	-.00059	-.04467	-.00316	-.00349	-.00140	-.00006	.01748
10.270	20.676	.64696	-.00365	-.00038	-.00040	-.04508	-.00338	-.00365	-.00145	-.00017	.01153
10.270	24.793	.64788	-.00262	-.00060	-.00016	-.04523	-.00315	-.00302	-.00040	.00101	.00925
10.270	28.755	.64950	-.00259	-.00040	.00036	-.04432	-.00205	-.00188	.00043	.00131	.00979
10.270	32.715	.65151	-.00315	-.00045	-.00098	-.04291	-.00074	-.00024	.00195	.00277	.01569
10.270	36.858	.65332	-.00216	-.00049	-.00009	-.03720	.00026	.00035	.00208	.00291	.01208
10.270	41.121	.65612	-.00208	-.00080	.00053	-.00735	.00280	.00311	.00475	.00487	.01205
10.270	45.127	.65909	-.00204	-.00090	-.00015	.05615	.00599	.00662	.00719	.00779	.01443
	GRADIENT	.00045	.00014	-.00004	.00003	.00217	.00027	.00029	.00025	.00023	-.00034

025 C0 M7 P7 W116 V0 E37 R5

(AEPB11) (13 SEP 74)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 85.000 RUDDER = .000
 ELEVON = .000 ATLON = .000

RUN NO. 30/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.254	12.994	.84202	-.00808	.00030	-.00070	-.03791	-.03967	-.03672	-.03465	-.03288	-.02503
5.254	16.801	.85179	-.00764	-.00015	-.00062	-.03967	-.03939	-.03752	-.03568	-.03360	-.02678
5.254	20.806	.85472	-.00732	-.00061	-.00047	-.04089	-.04037	-.03816	-.03614	-.03454	-.02771
5.254	24.798	.85550	-.00675	-.00099	-.00037	-.04017	-.03937	-.03737	-.03529	-.03372	-.02763
5.254	28.791	.85751	-.00712	-.00085	-.00046	-.03813	-.03849	-.03626	-.03462	-.03301	-.02693
5.254	32.803	.85867	-.00679	-.00091	-.00046	-.03908	-.03794	-.03572	-.03420	-.03339	-.02780
5.254	36.972	.86094	-.00639	-.00118	-.00023	-.03798	-.03670	-.03517	-.03373	-.03289	-.02803
5.254	41.202	.86307	-.00630	-.00132	-.00047	-.03649	-.03636	-.03431	-.03362	-.03304	-.02845
5.254	45.274	.86564	-.00583	-.00145	-.00035	-.03521	-.03534	-.03365	-.03350	-.03293	-.02864
	GRADIENT	.00058	.00006	-.00005	.00001	.00011	.00015	.00012	.00007	.00002	-.00008

RUN NO. 6/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.063	.84863	-.00487	-.00056	-.00006	-.05387	-.00738	-.00617	-.00282	-.00264	.03484
10.270	16.883	.84537	-.00433	-.00056	-.00033	-.04683	-.00761	-.00668	-.00340	-.00293	.02186
10.270	20.854	.84378	-.00327	-.00089	-.00029	-.04712	-.00754	-.00673	-.00327	-.00350	.01443
10.270	24.796	.84811	-.00229	-.00074	.00039	-.03393	-.00670	-.00623	-.00270	-.00264	.01086
10.270	28.745	.84954	-.00234	-.00043	-.00077	-.02233	-.00531	-.00322	-.00171	-.00199	.01034
10.270	32.727	.85133	-.00193	-.00029	-.00008	.08046	-.00415	-.00381	-.00009	-.00083	.01426
10.270	36.866	.85454	-.00102	-.00051	-.00071	.23009	-.00313	-.00313	.00009	-.00042	.01036
10.270	41.082	.85755	-.00160	-.00045	-.00064	.27279	.00016	.00025	.00305	.00260	.01212
10.270	45.134	.85820	.00068	-.00081	.00116	.82474	.00503	.00481	.00664	.00549	.01377
	GRADIENT	.00041	.00015	.00000	.00001	.02140	.00036	.00031	.00028	.00024	-.00050

DATE 06 NOV 74

TABULATED SOURCE DATA - 0A36

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B26 C9 M7 P7 W116 V6 E37 R5

(AEPD12) (13 SEP 74)

REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDPLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 31/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.254	12.954	.66549	-.00823	-.00016	-.00035	-.03674	-.04024	-.03718	-.03551	-.03341	-.02674
5.254	16.779	.66215	-.00769	-.00039	-.00037	-.03655	-.03947	-.03721	-.03601	-.03358	-.02703
5.254	20.604	.65971	-.00629	-.00069	-.00031	-.03916	-.04040	-.03791	-.03657	-.03447	-.02863
5.254	24.794	.65611	-.00591	-.00123	-.00020	-.03913	-.03934	-.03702	-.03569	-.03366	-.02869
5.254	28.802	.65828	-.00646	-.00114	-.00019	-.03674	-.03772	-.03534	-.03440	-.03163	-.02651
5.254	32.795	.65919	-.00643	-.00106	-.00023	-.03747	-.03728	-.03517	-.03406	-.03249	-.02793
5.254	37.007	.66079	-.00553	-.00116	-.00022	-.03662	-.03633	-.03445	-.03355	-.03225	-.02764
5.254	41.261	.66241	-.00572	-.00131	-.00021	-.03563	-.03631	-.03346	-.03352	-.03199	-.02797
5.254	45.306	.66282	-.00515	-.00138	-.00012	-.03357	-.03543	-.03247	-.03346	-.03206	-.02878
	GRADIENT	-.00003	.00008	-.00003	.00001	.00012	.00017	.00016	.00010	.00007	-.00003

RUN NO. 3/ 0 RN/L = 1.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.096	.65677	-.00375	-.00050	-.00007	-.22332	-.00699	-.00676	-.00336	-.00373	.01546
10.270	16.924	.64954	-.00335	-.00060	-.00014	-.21848	-.00734	-.00695	-.00369	-.00427	.01055
10.270	20.669	.64680	-.00244	-.00070	-.00003	-.21855	-.00722	-.00688	-.00362	-.00367	.00651
10.270	24.818	.64795	-.00142	-.00071	.00003	-.21193	-.00687	-.00619	-.00297	-.00332	.00793
10.270	28.774	.64999	-.00168	-.00050	.00017	-.20445	-.00556	-.00489	-.00152	-.00175	.00807
10.270	32.671	.65362	-.00050	-.00061	-.00090	-.21786	-.00452	-.00419	-.00033	-.00149	.00855
10.270	36.680	.65636	-.00166	-.00037	-.00169	-.21368	-.00337	-.00322	.00003	-.00043	.00776
10.270	41.081	.65827	.00057	-.00061	.00095	-.19544	-.00005	-.00004	.00253	.00202	.00922
10.270	45.079	.65947	.00095	-.00082	.00077	-.18718	.00386	.00390	.00566	.00497	.01185
	GRADIENT	.00023	.00014	-.00000	.00001	.00092	.00032	.00031	.00028	.00026	-.00009

826 C0 N7 F7 W116 Y0 E37 R0

(AEMP13) (13 SEP 74)

REFERENCE DATA

SREF = 8690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 379.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = 19.000
 ELEV-R = 19.000 BDPLAP = 16.800
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = 15.000 AILRON = .000

RUN NO. 32/ 0 RM/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.254	12.891	.72691	-.00731	-.00025	-.00031	-.04026	-.04267	-.04024	-.03630	-.03639	-.03034
5.254	16.733	.71906	-.00691	-.00036	-.00043	-.04116	-.04169	-.03943	-.03793	-.03598	-.03071
5.254	20.488	.71256	-.00559	-.00079	-.00013	-.04163	-.04219	-.03994	-.03643	-.03671	-.03159
5.254	24.667	.70809	-.00479	-.00108	.00004	-.04096	-.04073	-.03649	-.03717	-.03562	-.03100
5.254	28.695	.70547	-.00496	-.00109	.00003	-.03994	-.04043	-.03766	-.03619	-.03470	-.03001
5.254	32.667	.70336	-.00472	-.00112	-.00011	-.03996	-.03974	-.03750	-.03612	-.03463	-.02993
5.254	36.648	.70203	-.00363	-.00127	-.00010	-.03885	-.03841	-.03647	-.03465	-.03424	-.03020
5.254	41.122	.70111	-.00289	-.00149	.00007	-.03571	-.03478	-.03328	-.03181	-.03031	-.02681
5.254	45.153	.70066	-.00282	-.00164	.00011	-.03224	-.03242	-.03059	-.02950	-.02701	-.02454
	GRADIENT	-.00079	.00015	-.00004	.00001	.00023	.00030	.00027	.00026	.00026	.00016

RUN NO. 10/ 0 RM/L = 1.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.036	.71957	-.00453	-.00060	-.00003	-.04491	-.01232	-.00937	-.00407	-.00362	.03380
10.270	16.831	.70761	-.00477	-.00051	-.00020	-.05210	-.01232	-.00974	-.00395	-.00361	.03161
10.270	20.603	.70484	-.00270	-.00068	-.00015	-.05299	-.01185	-.00933	-.00363	-.00361	.03229
10.270	24.708	.70318	-.00217	-.00074	-.00015	-.05292	-.01058	-.00819	-.00395	-.00355	.03406
10.270	28.696	.70215	-.00252	-.00071	.00037	-.05534	-.00971	-.00767	-.00231	-.00280	.03763
10.270	32.657	.70023	-.00253	-.00089	.00082	-.04809	-.00843	-.00646	-.00238	-.00186	.03089
10.270	36.771	.69902	-.00299	-.00070	-.00129	-.05370	-.00639	-.00473	-.00042	-.00012	.02015
10.270	40.954	.69835	-.00073	-.00119	.00109	-.03858	.00512	.00733	.01196	.01381	.02631
10.270	42.869	.74494	-.00060	-.00195	.00333	-.01606	.02398	.02452	.02492	.02693	.04798
	GRADIENT	.00020	.00011	-.00003	.00007	.00036	.00068	.00063	.00072	.00077	-.00001

DATE 06 NOV 74

TABULATED SOURCE DATA - OA36

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B26 C9 M7 F7 W116 V8 E37 R5

(AEP014) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = 16.300
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 ATLON = .000

RUN NO. 34/ 0 RN/L = 1.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.255	12.633	.68824	-.00863	.00001	-.00037	-.03975	-.03989	-.03833	-.03651	-.03440	-.02642
5.255	16.594	.68231	-.00848	-.00019	-.00036	-.04043	-.03988	-.03639	-.03667	-.03439	-.02732
5.255	20.435	.67618	-.00794	-.00081	-.00024	-.04133	-.04086	-.03671	-.03751	-.03537	-.02836
5.255	24.601	.67370	-.00730	-.00140	-.00024	-.04070	-.03987	-.03776	-.03631	-.03436	-.02811
5.255	28.637	.67526	-.00746	-.00137	.00003	-.03959	-.03945	-.03728	-.03547	-.03423	-.02793
5.255	32.652	.67654	-.00716	-.00151	-.00011	-.03958	-.03843	-.03652	-.03491	-.03428	-.02811
5.255	36.620	.67809	-.00670	-.00161	.00013	-.03803	-.03721	-.03554	-.03388	-.03369	-.02788
5.254	41.039	.68009	-.00622	-.00164	.00007	-.03612	-.03637	-.03437	-.03334	-.03313	-.02824
5.255	45.075	.68074	-.00623	-.00171	-.00021	-.03504	-.03542	-.03376	-.03283	-.03222	-.02746
GRADIENT		-.00012	.00008	-.00006	.00001	.00017	.00016	.00016	.00014	.00006	-.00003

B26 C9 M7 F7 W116 V8 E37 R5

(AEP015) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = 10.000
 ELEV-R = -10.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 ATLON = 10.000

RUN NO. 36/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.254	13.114	.67214	-.00579	-.00097	.00472	-.03938	-.03962	-.03732	-.03608	-.03578	-.02978
5.254	18.901	.66699	-.00565	-.00161	.00612	-.03966	-.03949	-.03696	-.03620	-.03567	-.03024
5.254	20.665	.66365	-.00495	-.00271	.00774	-.04098	-.03984	-.03741	-.03691	-.03629	-.03131
5.254	24.879	.66168	-.00326	-.00348	.00981	-.04042	-.03888	-.03646	-.03624	-.03543	-.03049
5.254	28.959	.66143	-.00280	-.00412	.01169	-.03770	-.03697	-.03427	-.03481	-.03362	-.02883
5.254	32.914	.66299	-.00226	-.00474	.01334	-.03769	-.03677	-.03448	-.03386	-.03317	-.02863
5.254	37.185	.66457	-.00115	-.00579	.01517	-.03726	-.03629	-.03397	-.03378	-.03364	-.03001
5.254	41.398	.66536	-.00154	-.00630	.01617	-.03590	-.03563	-.03308	-.03409	-.03295	-.02996
5.254	45.415	.66524	-.00043	-.00693	.01713	-.03571	-.03570	-.03282	-.03481	-.03275	-.03030
GRADIENT		-.00013	.00018	-.00019	.00042	.00015	.00016	.00016	.00009	.00012	.00001

B26 C9 M7 F7 W116 V8 E37 R3

(AEP013) (13 SEP 74)

REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0130

PARAMETRIC DATA

BETA = .000 ELEV-L = 10.000
 ELEV-R = -10.000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = 10.000

RUN NO. 13/ 0 RN/L = 1.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CLL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.058	.66651	-.00304	-.00130	.00338	.08394	-.01023	-.01116	-.00489	-.00588	.02841
10.270	16.835	.65591	-.00248	-.00188	.00486	.08400	-.01023	-.01113	-.00593	-.00640	.02328
10.270	20.674	.65282	-.00053	-.00248	.00715	.08403	-.01007	-.01081	-.00576	-.00588	.02623
10.270	24.773	.65750	.00063	-.00310	.00936	.08405	-.00950	-.00996	-.00459	-.00576	.02793
10.270	28.807	.65646	.00110	-.00355	.01124	.08408	-.00790	-.00865	-.00384	-.00414	.02971
10.270	32.736	.65609	.00170	-.00390	.01181	.08410	-.00675	-.00774	-.00285	-.00402	.02820
10.270	36.875	.65908	.00279	-.00478	.01478	.08411	-.00612	-.00632	-.00221	-.00285	.01584
10.270	41.114	.66119	.00333	-.00535	.01694	.08412	-.00337	-.00365	.00063	.00063	.01459
10.270	43.159	.66108	.00161	-.00540	.01588	.08416	.00006	.00011	.00364	.00304	.01566
	GRADIENT	.00002	.00019	-.00014	.00044	.00001	.00031	.00033	.00027	.00027	-.00045

B26 C9 M7 F7 W116 V8 E37 R3

(AEP016) (13 SEP 74)

REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0130

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = .000
 SPDRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 37/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CLL	CP1	CP2	CP3	CP4	CP5	CP6
5.254	13.114	.67154	-.00741	-.00006	-.00027	-.04182	-.03969	-.03848	-.03731	-.03757	-.02809
5.254	16.872	.66863	-.00723	-.00028	-.00043	-.04186	-.03923	-.03813	-.03750	-.03743	-.02828
5.254	20.724	.66598	-.00599	-.00077	-.00031	-.04207	-.03972	-.03831	-.03791	-.03823	-.02913
5.254	24.916	.66278	-.00624	-.00097	-.00036	-.04178	-.03875	-.03793	-.03727	-.03746	-.02868
5.254	28.888	.66274	-.00636	-.00098	-.00037	-.04014	-.03779	-.03624	-.03558	-.03640	-.02766
5.254	32.877	.66392	-.00608	-.00091	-.00034	-.04013	-.03773	-.03623	-.03561	-.03639	-.02788
5.254	37.078	.66584	-.00543	-.00121	-.00031	-.03932	-.03676	-.03525	-.03484	-.03586	-.02821
5.254	41.297	.66774	-.00566	-.00124	-.00039	-.03838	-.03608	-.03504	-.03496	-.03533	-.02856
5.254	43.768	.66879	-.00423	-.00130	-.00009	-.03688	-.03354	-.03470	-.03579	-.03496	-.02887
	GRADIENT	-.00008	.00008	-.00004	.00000	.00015	.00014	.00014	.00010	.00010	-.00001

DATE 06 NOV 74

TABULATED SOURCE DATA - 0436

PAGE 38

B26 C9 M7 F7 W116 V8 E37 R5

(AEPD16) (13 SEP 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 ATLRON = .000

RUN NO. 9/ 0 RN/L = 1.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.056	.66056	-.00665	-.00056	-.00045	2.24075	-.00906	-.00848	-.00478	-.00423	.03116
10.270	16.663	.65326	-.00487	-.00084	-.00040	2.24222	-.00906	-.00659	-.00512	-.00422	.01928
10.270	20.685	.65197	-.00521	-.00084	-.00021	2.24741	-.00888	-.00846	-.00504	-.00420	.01169
10.270	24.805	.65217	-.00383	-.00102	.00013	2.24433	-.00814	-.00750	-.00429	-.00351	.00970
10.270	28.736	.65514	-.00481	-.00061	-.00103	2.24420	-.00699	-.00636	-.00318	-.00245	.01035
10.270	32.714	.65635	-.00266	-.00100	-.00003	2.24505	-.00578	-.00522	-.00159	-.00166	.01504
10.270	36.866	.66065	-.00278	-.00099	-.00067	2.24699	-.00387	-.00349	-.00045	-.00072	.00986
10.270	41.023	.66655	-.00291	-.00090	-.00111	2.24802	-.00214	-.00172	.00166	.00104	.00974
10.270	45.131	.66279	-.00194	-.00130	.00026	2.24779	.00131	.00171	.00376	.00310	.01152
GRADIENT		.00031	.00013	-.00001	-.00000	.00021	.00032	.00031	.00028	.00023	-.00046

B26 C9 M7 F7 W116 V8 E37 R5

(AEPD17) (13 SEP 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 25.000 RUDDER = -10.000
 ELEVON = .000 ATLRON = .000

RUN NO. 38/ 0 RN/L = 2.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.253	13.023	.67269	-.01047	.00164	-.00120	-.04378	-.04044	-.03922	-.03875	-.04120	-.03213
5.253	16.821	.66732	-.00922	.00063	-.00101	-.04380	-.03988	-.03888	-.03906	-.04119	-.03220
5.253	20.687	.66250	-.00837	.00019	-.00072	-.04380	-.03988	-.03846	-.03879	-.04116	-.03253
5.253	24.869	.65982	-.00768	-.00030	-.00041	-.04325	-.03902	-.03800	-.03780	-.04030	-.03212
5.254	28.964	.65811	-.00750	-.00078	-.00015	-.04134	-.03772	-.03646	-.03637	-.03812	-.03022
5.254	32.900	.65903	-.00840	-.00071	-.00030	-.04117	-.03712	-.03582	-.03619	-.03863	-.03021
5.254	37.110	.66064	-.00630	-.00096	-.00021	-.04044	-.03621	-.03545	-.03579	-.03874	-.03096
5.254	41.357	.66312	-.00598	-.00104	-.00017	-.03970	-.03617	-.03459	-.03577	-.03810	-.03036
5.254	45.348	.66421	-.00560	-.00106	-.00027	-.03872	-.03524	-.03456	-.03531	-.03787	-.03016
GRADIENT		-.00022	.00014	-.00008	.00003	.00017	.00017	.00017	.00013	.00012	.00006

826 C9 M7 F7 W116 V8 E37 R5

(AEPO18) (13 SEP 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = 25.000 RUDDER = .000
 ELEVON = .000 ATLON = .000

RUN NO. 41/ 0 RN/L = 1.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CSL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	12.572	.67246	-.00714	-.00068	-.00017	-.07136	-.02178	-.04053	-.00042	-.39002	-.39115
5.250	16.633	.66369	-.00671	-.00069	-.00021	-.07137	-.02204	-.04114	-.00041	-.00041	-.39127
5.250	20.591	.66207	-.00604	-.00120	-.00011	-.07076	-.02244	-.04126	.38849	-.38984	-.19571
5.250	24.639	.66018	-.00574	-.00141	.00003	-.06935	-.02170	-.04055	-.00043	-.38993	-.19576
5.250	28.787	.66039	-.00513	-.00147	.00001	-.06506	-.02080	-.03870	-.00042	-.39004	-.19580
5.250	32.733	.66137	-.00497	-.00132	-.00004	-.06514	-.02097	-.03897	-.00040	-.39020	-.00040
5.250	36.655	.66273	-.00489	-.00162	-.00006	-.06391	-.02100	-.03830	-.38934	-.00046	-.39093
5.250	40.869	.66430	-.00459	-.00178	-.00007	-.05997	-.02052	-.03703	-.38947	-.00044	-.39106
5.250	42.763	.66503	-.00421	-.00189	-.00013	-.05836	-.02030	-.03734	.38832	-.38972	-.19566
GRADIENT		-.00014	.00009	-.00004	.00000	.00044	.00006	.00014	-.00611	.00376	.00243

826 C9 M7 F7 W116 V8 E37 R5

(AEPO18) (13 SEP 74)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDBRK = .000 RUDDER = -10.000
 ELEVON = .000 ATLON = .000

RUN NO. 8/ 0 RN/L = 1.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CSL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.110	.66340	-.00516	-.00044	-.00017	-.36037	-.00766	-.00781	-.00461	-.00373	.02707
10.270	16.913	.65223	-.00444	-.00066	-.00020	-.36240	-.00789	-.00792	-.00479	-.00390	.01637
10.270	20.666	.64797	-.00369	-.00077	-.00054	-.36295	-.00732	-.00780	-.00466	-.00372	.00897
10.270	24.776	.64920	-.00323	-.00093	-.00039	-.36203	-.00675	-.00639	-.00367	-.00314	.00354
10.270	28.713	.65132	-.00317	-.00087	-.00064	-.36172	-.00589	-.00582	-.00244	-.00197	.00572
10.270	32.693	.65168	-.00289	-.00081	-.00059	-.36216	-.00466	-.00466	-.00133	-.00126	.01140
10.270	36.845	.65369	-.00238	-.00098	-.00010	-.36471	-.00348	-.00360	-.00109	-.00020	.00721
10.270	41.035	.65903	-.00291	-.00069	-.00009	-.36006	-.00073	-.00053	.00196	.00166	.00926
10.270	43.098	.66003	-.00299	-.00098	.00054	-.35733	.00337	.00386	.00512	.00430	.01077
GRADIENT		.00011	.00007	-.00001	.00002	.00006	.00032	.00033	.00029	.00023	-.00038

DATE 08 NOV 74

TABULATED SOURCE DATA - QAS6

PAGE 41

B26 C6 M7 P7 W116 V8 E26 R8

(ZEPG20) (08 NOV 74)

REFERENCE DATA

WREF = 8000.0000 SQ.FT. XMRP = 1070.7000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 WREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = 15.000
 ELEV-R = 15.000 DDFLAP = 16.300
 SPDWRK = 95.000 RUDDER = .000
 ELEVON = 15.000 AILRON = .000

RUN NO. O/ O RN/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.255	12.632	.72212	-.00986	.00015	-.00063	-.04149	-.04362	-.04042	-.03708	-.03486	-.02730
5.255	16.590	.71501	-.00966	-.00009	-.00062	-.04091	-.04335	-.04025	-.03720	-.03463	-.02831
5.255	20.428	.71114	-.00925	-.00062	-.00091	-.04267	-.04324	-.04041	-.03733	-.03511	-.02931
5.255	24.591	.70609	-.00727	-.00074	-.00106	-.04243	-.04249	-.03989	-.03670	-.03468	-.02945
5.255	28.563	.70631	-.00709	-.00061	-.00172	-.04076	-.04117	-.03815	-.03496	-.03385	-.02867
5.255	32.591	.70555	-.00572	-.00086	-.00186	-.04051	-.04055	-.03810	-.03489	-.03382	-.02819
5.254	36.750	.70542	-.00586	-.00061	-.00186	-.03917	-.03951	-.03733	-.03485	-.03378	-.02917
5.255	41.004	.70470	-.00462	-.00103	-.00178	-.03584	-.03682	-.03490	-.03177	-.03032	-.02711
5.255	43.425	.70533	-.00264	-.00133	-.00126	-.03289	-.03547	-.03333	-.03082	-.02836	-.02567
GRADIENT		-.00048	.00021	-.00004	-.00004	.00025	.00026	.00022	.00020	.00018	.00003

RUN NO. O/ O RN/L = 1.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	20.622	.70382	-.00529	-.00056	-.00025	-1.06036	-.00846	-.00617	-.00137	-.00244	.04620
10.270	24.694	.70325	-.00410	-.00071	-.00015	-1.06174	-.00783	-.00617	-.00049	-.00238	.05000
10.270	28.691	.70201	-.00218	-.00124	.00095	-1.05111	-.00657	-.00537	.00016	-.00167	.05476
10.270	32.655	.70136	-.00474	-.00052	-.00151	-1.04893	-.00520	-.00514	-.00031	-.00155	.04709
10.270	36.735	.69993	-.00302	-.00106	-.00031	-1.03949	-.00331	-.00275	.00151	.00056	.02938
10.270	40.808	.75337	.00077	-.00274	.00851	-.97404	.04133	.04084	.04661	.05219	.06999
10.270	42.991	.70685	-.00246	-.00195	.00308	-1.00477	.00358	.00408	.00586	.00632	.02742
GRADIENT		.00106	.00017	-.00006	.00025	.00332	.00134	.00124	.00115	.00135	-.00032

826 60 MT FT MISS VS E26 NS

(AEPO81) (13 SEP 74 1

REFERENCE DATA

SREF = 2690.0000 SQ.FT, XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEVON = -40.000 AILRON = .000

RUN NO. 35/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.254	12.539	.62079	-.00717	-.00004	-.00015	-.03992	-.04197	-.04039	-.03786	-.03981	-.03048
5.254	16.405	.63278	-.00751	-.00028	-.00003	-.04025	-.04203	-.04048	-.03824	-.03989	-.03124
5.254	20.283	.63656	-.00768	-.00037	-.00013	-.04117	-.04270	-.04092	-.03826	-.03647	-.03215
5.254	24.407	.63883	-.00680	-.00090	-.00007	-.04017	-.04212	-.03982	-.03791	-.03574	-.03144
5.254	28.486	.63641	-.00659	-.00084	-.00009	-.03618	-.04068	-.03796	-.03626	-.03393	-.02955
5.254	32.461	.63690	-.00727	-.00084	-.00030	-.03674	-.04028	-.03668	-.03625	-.03485	-.03134
5.254	36.712	.63647	-.00807	-.00111	-.00014	-.03696	-.03800	-.03596	-.03479	-.03337	-.03054
5.254	40.984	.64037	-.00593	-.00131	-.00001	-.03540	-.03671	-.03494	-.03418	-.03180	-.03036
5.254	42.965	.64093	-.00832	-.00143	.00008	-.03378	-.03596	-.03392	-.03416	-.03070	-.02964
	GRADIENT	.00045	.00004	-.00004	.00000	.00021	.00022	.00023	.00015	.00017	.00004

RUN NO. 14/ 0 RN/L = 1.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	15.151	.62378	-.00359	-.00049	.00023	-.00398	-.00615	-.00681	-.00440	-.00367	.01616
10.270	16.934	.62621	-.00313	-.00047	-.00007	-.00673	-.00650	-.00703	-.00458	-.00398	.01093
10.270	20.707	.62673	-.00230	-.00078	-.00016	-.00673	-.00778	-.00684	-.00448	-.00305	.00965
10.270	24.806	.62692	-.00311	-.00056	-.00035	-.00634	-.00719	-.00579	-.00394	-.00282	.00986
10.270	28.886	.62961	-.00214	-.00056	-.00001	-.00378	-.00582	-.00443	-.00285	-.00154	.01000
10.270	32.780	.63173	-.00195	-.00043	-.00043	-.00378	-.00468	-.00352	-.00106	-.00101	.01117
10.270	36.958	.63313	-.00185	-.00059	-.00002	-.00260	-.00376	-.00216	-.00044	.00037	.00983
10.270	41.156	.63628	-.00243	-.00080	.00015	-.00073	-.00233	-.00088	.00009	.00104	.00954
10.270	45.140	.63606	-.00218	-.00079	.00021	.00026	-.00045	.00017	.00086	.00174	.00932
	GRADIENT	.00042	.00004	-.00001	.00000	.00020	.00025	.00025	.00020	.00020	-.00012

DATE 06 NOV 74

TABULATED SOURCE DATA - 0A36

PAGE 43

B26 C9 M7 F7 W116 V8 E26 R5

(AEP022) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 SREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = 10.000
 ELEV-R = -10.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = 10.000

RUN NO. 39/ 0 RN/L = 1.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	12.515	.67233	-.00427	-.00146	.00463	-.03943	-.03371	-.03736	.19666	-.00327	-.00327
5.250	16.569	.66632	-.00293	-.00226	.00629	-.03924	-.03366	-.03625	-.00326	-.00326	-.00326
5.250	20.534	.66569	-.00176	-.00316	.00607	-.03995	-.03517	-.03924	.19661	-.00326	-.00326
5.250	24.819	.66369	-.00069	-.00374	.01011	-.03646	-.03446	-.03610	.19656	-.00333	-.00333
5.250	28.756	.66363	-.00023	-.00421	.01166	-.03653	-.03249	-.03657	.39669	-.00326	-.00326
5.250	32.692	.66415	.00050	-.00479	.01345	-.03653	-.03269	-.03621	.19675	-.00329	-.00329
5.250	36.626	.66526	.00152	-.00556	.01514	-.03584	-.03326	-.03541	.39720	-.00325	-.00325
5.250	40.696	.66666	.00167	-.00602	.01643	-.03441	-.03260	-.03404	.19760	-.00313	-.00313
5.250	42.845	.66750	.00220	-.00646	.01706	-.03075	-.02951	-.03303	.19645	-.00335	-.00335
GRADIENT		-.00011	.00021	-.00016	.00041	.00025	.00011	.00017	.00446	.00000	.00000

RUN NO. 12/ 0 RN/L = 1.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.054	.66660	-.00361	-.00137	.00351	.06789	-.00661	-.00906	-.00494	-.00675	.02933
10.270	16.886	.65702	-.00349	-.00167	.00496	.06792	-.00916	-.00934	-.00522	-.00697	.02631
10.270	20.680	.65379	-.00119	-.00212	.00705	.06600	-.00660	-.00905	-.00493	-.00674	.02740
10.270	24.775	.65447	-.00036	-.00291	.00671	.06796	-.00615	-.00666	-.00482	-.00633	.02637
10.270	28.765	.65515	.00093	-.00310	.01065	.06799	-.00691	-.00736	-.00346	-.00523	.02966
10.270	32.706	.65914	.00130	-.00374	.01332	.06795	-.00576	-.00661	-.00314	-.00486	.02597
10.270	36.682	.65646	.00166	-.00423	.01463	.06797	-.00515	-.00566	-.00261	-.00346	.01480
10.270	41.126	.66112	.00269	-.00510	.01674	.06610	-.00179	-.00229	.00037	.00002	.01376
10.270	43.139	.66210	.00315	-.00527	.01767	.06604	-.00010	-.00117	.00065	.00071	.01355
GRADIENT		.00003	.00023	-.00013	.00046	.00000	.00026	.00026	.00019	.00025	-.00035

826 C9 M7 F7 W110 V0 E26 R5

(AEP023) (13 SEP 74)

REFERENCE DATA

BREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = .000
 ELEV-R = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEVON = .000 AILRON = .000

RUN NO. 40/ D RN/L = 1.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	12.619	.65907	-.00658	-.00028	-.00027	-.03990	-.03540	-.03794	.81264	-.00155	-.41031
5.250	14.802	.65824	-.00664	-.00055	-.00032	-.03937	-.03567	-.03821	-.00137	-.00157	-.20389
5.250	20.540	.65923	-.00593	-.00096	-.00012	-.03903	-.03650	-.03660	.40604	-.00150	-.20610
5.250	24.850	.65919	-.00563	-.00116	-.00005	-.03777	-.03571	-.03723	.40568	-.00154	-.41042
5.250	28.782	.65992	-.00578	-.00113	-.00010	-.03641	-.03444	-.03605	.40524	-.00159	-.20383
5.250	32.702	.66105	-.00534	-.00114	-.00030	-.03557	-.03444	-.03518	.40524	-.00159	-.41006
5.250	36.846	.66257	-.00539	-.00127	-.00020	-.03483	-.03456	-.03311	-.00161	-.00161	-.20374
5.250	40.875	.66413	-.00504	-.00133	-.00030	-.03341	-.03433	-.03091	.40534	-.00158	-.00158
5.250	42.764	.66476	-.00473	-.00150	-.00005	-.03241	-.03363	-.03399	-.00127	-.00127	-.20681
	GRADIENT	.00021	.00006	-.00003	.00000	.00024	.00007	.00022	-.01184	.00000	.00618

RUN NO. 4/ D RN/L = 1.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
10.270	13.076	.65887	-.00405	-.00041	-.00015	.19915	-.00831	-.00884	-.00426	-.00425	.01321
10.270	16.863	.65202	-.00319	-.00049	.00012	.31030	-.00889	-.00880	-.00519	-.00424	.00715
10.270	20.685	.64940	-.00171	-.00070	.00003	.54314	-.00905	-.00890	-.00501	-.00424	.00445
10.270	24.788	.65131	-.00191	-.00032	-.00084	.74254	-.00815	-.00827	-.00396	-.00343	.00304
10.270	28.761	.64973	-.00131	-.00033	-.00041	1.04889	-.00750	-.00729	-.00321	-.00246	.00345
10.270	32.703	.65461	-.00055	-.00067	.00063	2.12297	-.00600	-.00651	-.00289	-.00182	.00410
10.270	36.928	.65635	-.00035	-.00047	.00023	2.20423	-.00482	-.00531	-.00157	-.00078	.00428
10.270	41.110	.65963	-.00084	-.00040	-.00041	2.20493	-.00123	-.00172	.00147	.00159	.00618
10.270	43.131	.66063	-.00036	-.00069	-.00075	2.13075	-.00048	-.00024	.00186	.00268	.00753
	GRADIENT	.00020	.00011	-.00008	-.00001	.07569	.00028	.00028	.00023	.00023	-.00011

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TABULATED SOURCE DATA - 0A36

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B26 C9 M7 F7 W116 V8 E26 R5

(AEP024) (15 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDBRK = 65.000 RUDDER = .000
 ELEVON = -40.000 ATTIRON = .000

RUN NO. 42/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	2.355	.82153	-.00898	.00114	.00020	-.03533	-.03806	-.03888	.00140	.00140	-438.42100
5.250	6.364	.18538	-.00753	.00067	-.00023	-.03781	-.03827	-.04024	.00139	.00139	-429.01900
5.250	10.301	.55775	-.00374	-.00001	-.00021	-.04044	-.04149	-.04327	.00144	.00144	-417.52200
5.250	14.611	.60723	-.00537	-.00036	-.00016	-.04133	-.04264	-.04455	.00137	.00137	-404.30500
5.250	18.608	.82484	-.00385	-.00109	.00004	-.04080	-.04253	-.04477	.00136	.00136	-393.82000
5.250	22.498	.63103	-.00308	-.00140	.00030	-.04021	-.04194	-.04436	.00135	.00135	-383.88000
5.250	26.628	.63468	-.00314	-.00135	.00023	-.03877	-.04026	-.04327	.00142	.00142	-376.66400
5.250	30.688	.63783	-.00319	-.00135	.00025	-.03875	-.04086	-.04328	-.19171	.00138	-367.08100
5.250	32.578	.63870	-.00336	-.00141	.00018	-.03798	-.04058	-.04321	.00144	.00144	-361.29600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

B26 C9 M14 F7 W116 V8 E26 R5

(AEP025) (13 SEP 74)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDBRK = 65.000 RUDDER = .000
 ELEVON = -40.000 ATTIRON = .000

RUN NO. 43/ 0 RN/L = 1.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	12.456	.59227	-.00657	-.00043	-.00004	-.04106	-.03993	-.04382	-.40278	144.53200	-52.38320
5.250	16.466	.61750	-.00567	-.00092	-.00003	-.04084	-.03983	-.04403	-.40232	144.34400	-51.56640
5.250	20.439	.62791	-.00443	-.00147	.00027	-.04035	-.03994	-.04425	-.40255	144.43900	-50.37540
5.250	24.290	.63288	-.00449	-.00155	.00034	-.03859	-.03824	-.04265	-.40270	144.49900	-49.26590
5.250	28.437	.63604	-.00499	-.00138	.00015	-.03844	-.03819	-.04274	-.80396	144.40300	-48.02780
5.250	32.316	.63861	-.00425	-.00135	.00016	-.03747	-.03825	-.04223	-.40246	144.40300	-46.55970
5.250	36.278	.64075	-.00441	-.00140	.00013	-.03531	-.03682	-.04043	-.00091	144.55300	-45.48490
5.250	39.221	.64241	-.00420	-.00148	.00016	-.03359	-.03574	-.03884	-.40286	144.56600	-44.17530
	GRADIENT	.00155	.00007	-.00003	.00001	.00027	.00015	.00018	.00496	.00319	.30773

826 C8 M14 F7 M146 V8 E26 R3

(AEP025) (13 SEP 74)

REFERENCE DATA

SREF = 8895.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 ELEV-L = -40.000
 ELEV-R = -40.000 BDPLAP = -11.700
 SPDBRK = 65.000 RUDDER = .000
 ELEVON = -40.000 ATLCON = .000

RUN NO. 44/ 0 RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	XCP/L	CY	CYN	CSL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	-4.742	.63016	.04533	.00337	.00793	-.04265	-.04176	-.04319	.37906	-61.74280	13.51720
5.250	-3.663	.62841	.03499	.00239	.00824	-.04271	-.04160	-.04321	-.00518	-61.77720	13.67000
5.250	-2.741	.62662	.02342	.00247	.00433	-.04275	-.04166	-.04323	-.00523	-61.70370	14.20300
5.250	-1.735	.62813	.01383	.00203	.00286	-.04263	-.04196	-.04338	.37902	-61.73730	14.46690
5.250	-.689	.62804	.00719	.00058	.00134	-.04297	-.04166	-.04359	-.00523	-61.71470	14.63020
5.250	.142	.62797	.00062	-.00049	.00045	-.04275	-.04151	-.04349	-.00523	-61.69230	15.17610
5.250	1.180	.62783	-.00874	-.00190	-.00076	-.04359	-.04262	-.04428	.37880	-61.70370	15.66030
5.250	2.129	.62784	-.01740	-.00273	-.00219	-.04373	-.04257	-.04428	-.00523	-61.70720	15.90130
5.250	3.046	.62814	-.02773	-.00270	-.00394	-.04353	-.04209	-.04403	.37672	-61.69390	16.20400
5.250	4.017	.62848	-.03839	-.00306	-.00364	-.04328	-.04177	-.04363	-.00524	-61.69410	16.43340
5.250	4.909	.62862	-.04804	-.00373	-.00693	-.04300	-.04134	-.04332	-.00523	-61.71390	16.63110
	GRADIENT	-.00013	-.00943	-.00061	-.00151	-.00008	-.00002	-.00007	-.01106	.00534	.33630

826 C9 M7 F7 M116 V8 E26 R5

(AEP027) (13 SEP 74)

REFERENCE DATA

SREF = 8895.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.7000 IN. ZMRP = 373.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 ELEV-L = -40.000
 ELEV-R = -40.000 BDPLAP = -11.700
 SPDBRK = 65.000 RUDDER = .000
 ELEVON = -40.000 ATLCON = .000

RUN NO. 45/ 0 RM/L = 1.95 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	XCP/L	CY	CYN	CSL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	-4.730	.63036	.04628	.00317	.00808	-.04277	-.04408	-.04814	-.00064	-.00064-2334.17999	
5.250	-3.621	.62979	.03486	.00240	.00630	-.04286	-.04419	-.04823	-.00061	-.00061-2391.87000	
5.250	-2.712	.62894	.02325	.00228	.00459	-.04313	-.04453	-.04853	-.00063	-.00063-2425.79999	
5.250	-1.727	.62885	.01339	.00181	.00291	-.04345	-.04492	-.04898	-.00063	-.00063-2492.12000	
5.250	-.701	.62929	.00699	.00049	.00161	-.04326	-.04448	-.04876	-.00066	-.00066-2529.69999	
5.250	.123	.62931	-.00004	-.00055	.00040	-.04264	-.04391	-.04839	-.00063	-.00063-2573.06000	
5.250	1.170	.62884	-.00928	-.00197	-.00102	-.04342	-.04475	-.04707	-.00063	-.00063-2613.73001	
5.250	2.139	.62821	-.01867	-.00277	-.00237	-.04393	-.04320	-.04748	-.00063	-.00063-2638.07001	
5.250	3.098	.62867	-.02931	-.00271	-.00440	-.04380	-.04486	-.04709	-.00064	-.00064-2701.37999	
5.250	4.002	.62923	-.03982	-.00312	-.00594	-.04343	-.04453	-.04662	-.00064	-.00064-2744.83001	
5.250	4.883	.62971	-.04948	-.00372	-.00739	-.04307	-.04392	-.04617	-.00066	-.00066-2793.63000	
	GRADIENT	-.00007	-.00971	-.00079	-.00156	-.00007	-.00002	-.00004	-.00000	-.00000	-45.98399

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TABULATED SOURCE DATA - OA36

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B26 C9 M7 F7 W116 V8 E26 R5

(AEPO26) (13 SEP 74)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = -40.000 AILRON = .000

RUN NO. 46/ 0 RN/L = 1.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	2.235	.72906	-.00941	.00046	.00051	-.03822	-.03467	-.03831	.19935	-.00071-2923.13000	
5.250	6.215	.51309	-.00788	-.00008	.00005	-.03976	-.03813	-.04097	.19947	-.00069-2924.56000	
5.250	10.153	.61092	-.00678	-.00056	-.00013	-.04029	-.04055	-.04300	-.00074	-.00074-2921.87000	
5.250	14.457	.62822	-.00635	-.00067	-.00015	-.03967	-.04137	-.04296	-.00068	-.00068-2923.01001	
5.250	18.399	.63351	-.00521	-.00121	-.00010	-.03919	-.04194	-.04336	.19944	-.00070-2924.19000	
5.250	22.401	.63536	-.00409	-.00165	.00009	-.03783	-.04183	-.04294	.19940	-.00070-2923.75000	
5.250	26.508	.63692	-.00386	-.00158	.00009	-.03569	-.04042	-.04192	-.00066	-.00066-2926.07001	
5.250	30.533	.63877	-.00440	-.00146	-.00000	-.03644	-.04076	-.04187	.19944	-.00070-2924.17001	
5.250	32.431	.64004	-.00442	-.00136	-.00006	-.03688	-.04041	-.04138	-.00063	-.00063-2927.66000	
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

B26 C9 M14 F7 W116 V8 E26 R5

(AEPO26) (13 SEP 74)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 1076.7000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.7000 IN. ZMRP = 375.0000 IN.
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 ELEV-L = -40.000
 ELEV-R = -40.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEVON = -40.000 AILRON = .000

RUN NO. 47/ 0 RN/L = 1.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	XCP/L	CY	CYN	CBL	CP1	CP2	CP3	CP4	CP5	CP6
5.250	12.237	.62002	-.00698	-.00044	-.00013	-.04342	-.03860	-.04276	.79972	.00012-3050.60001	
5.250	16.133	.62921	-.00640	-.00066	-.00004	-.04340	-.03979	-.04282	.00008	.00008-2988.26999	
5.250	20.318	.63384	-.00552	-.00148	.00007	-.04297	-.04001	-.04301	.00009	.00009-2947.70001	
5.250	24.156	.63631	-.00488	-.00177	.00023	-.04097	-.03860	-.04166	.39992	.00012-2892.45999	
5.250	28.310	.63844	-.00531	-.00143	.00001	-.04053	-.03861	-.04150	.39968	.00009-2848.50000	
5.250	32.202	.63994	-.00523	-.00153	.00003	-.04048	-.03860	-.04138	.00014	.00014-2793.79001	
5.250	36.168	.64148	-.00509	-.00148	.00006	-.03812	-.03775	-.03938	.40026	.00016-2754.01999	
5.250	38.987	.64261	-.00476	-.00153	.00008	-.03585	-.03623	-.03791	.80109	.00021-2716.29001	
	GRADIENT	.00074	.00007	-.00003	.00001	.00026	.00009	.00017	.00544	.00000	12.27612